



west virginia department of environmental protection

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

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

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

CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HICKS U14H
47-051-02004-00-00

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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: HICKS U14H
Farm Name: THOMAS E. HICKS
U.S. WELL NUMBER: 47-051-02004-00-00
Horizontal 6A New Drill
Date Issued: 6/1/2018

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: SI-02004

PERMIT CONDITIONS

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



west virginia department of environmental protection

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

Barry K. Lay, Chairman
dep.wv.gov

May 1, 2018

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

RE: Application for Deep Well Permit – API #47-051-02004

COMPANY: Chevron Appalachia, LLC

FARM: Chevron Appalachia, LLC Hicks U14H

COUNTY: Marshall DISTRICT: Clay QUAD: Glen Easton

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

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

1. Comments to Notice of Deviation filed? Yes
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: none
4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

A handwritten signature in blue ink that reads "Susan Rose". The signature is fluid and cursive.

Susan Rose
Administrator

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

1) Well Operator: Chevron Appalachia, LLC

<u>49449935</u>	<u>Marshall</u>	<u>Clay</u>	<u>Glen Easton 7.5'</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: U14H Well Pad Name: Hicks

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

4) Elevation, current ground: 1161.57 ^{for} 1140' Elevation, proposed post-construction: 1140'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow _____ Deep

Horizontal

6) Existing Pad: Yes or No Yes

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

8) Proposed Total Vertical Depth: 11,300'

9) Formation at Total Vertical Depth: Point Pleasant ✓

10) Proposed Total Measured Depth: 24,997'

11) Proposed Horizontal Leg Length: 13,275'

12) Approximate Fresh Water Strata Depths: 430'

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

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

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

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

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

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

18) **CASING AND TUBING PROGRAM**

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	30	New	X-42		60'	60'	CTS
Fresh Water	20	New	J-55	94	500'	500'	CTS
XXX Interm. 1	13-3/8	New	N-80Q	68	2,010'	2,010'	CTS
Intermediate 2	9-5/8	New	P-110-ICY	40	8,570'	8,570'	CTS
Production	5-1/2	New	P110-EC	23	24,997'	24,997'	CTS
Tubing							
Liners							

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

PACKERS NA

Kind:				
Sizes:				
Depths Set:				

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

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

51-02004

Hicks Utica – Cement Additives

Attachment WW-6B

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

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

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

The Production cement will have a lead and tail cement.

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

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

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Office of Oil and Gas

JAN 5 2018

WV Department of
Environmental Protection

Hicks U14H

SI-02004

Permit#		Ground Level Elev. (ft above SL):		1138					
Marshall County, WV		Depth Meas. w/ Air KB (ft above GL):		17 Highlands 14					
12/11/2017 6:30		Depth Meas. w/ Fluid KB (ft above GL):		25 Proclison 560					
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN FMC UH-S 13 5/8" (One-Piece) 10K	HOLE SIZE (IN)	HOLE DEPTH (FT)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)					
Core Barrel / Auger		30" Conductor	-60	-	INC AZM	36		Conductor Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Blow Spring: (1) on shoe (w/ lock ring & (1) on every 2 jts							Surface Casing 20" 94# J-55 BTC 0.5" Wall Coupling OD (in) 21.000 ID (in) 19.124 Drift ID (in) 18.937 Burst (psi) 2110 Collapse (psi) 520 Yield (Jt Strength 1,000 lbs) 1402 Capacity (bbl/ft) 0.3553	Cement to Surface
		20" Casing	-500	-		26			
	Blow Spring: (1) on shoe (w/ lock ring & (1) on every 2 jts							Intermediate #1 String 13-3/8" 68# N-800 BTC 0.480" Wall Coupling OD (in) 14.375 ID (in) 12.415 Drift ID (in) 12.259 Burst (psi) 5020 Collapse (psi) 2260 Yield (Jt Strength 1,000 lbs) 1555 Capacity (bbl/ft) 0.1497 OH Annulus (bbl/ft) 0.1237	Cement to Surface
		13-3/8" Casing	-2,010	-		17.50			
	Blow Spring: (1) on shoe (w/ lock ring & (1) on every 2 jts							Intermediate #2 Casing 9-5/8" 40# P110-ICY BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 8980 Collapse (psi) 4050 Yield (Jt Strength 1,000 lbs) 1432 Capacity (bbl/ft) 0.0758 OH Annulus (bbl/ft) 0.0558	Cement to Surface
		9-5/8" Casing	-8,570	-		12.25 to 12.375		Set 100' into Rochester Shale	
	Blow Spring: (1) on every other j from KOP to surface Solid Body : 1 per jt of csg from TD to KOP	Marker Joint above KOP Estimated KOP		-10700				Production Casing 5-1/2" 23# P-110EC, VAM 21 HT 0.415" Wall Coupling OD (in) 6.195 ID (in) 4.670 Drift ID (in) 4.545 Burst (psi) 16570 Collapse (psi) 16220 Yield (Jt Strength 1,000 lbs) 829 Capacity (bbl/ft) 0.0212 OH Annulus (bbl/ft) 0.0408	Cement to Surface
		Landing Point	-11750	-11300					
	Latch Collar 2 Jts of Csg Float Equip.		-25141						
		5-1/2" Casing	-25232	-11300		8.500 to 8.75			

Jan 12/12/17

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JAN 5 2018
WV Department of Environmental Protection

WW-9
(4/16)

API Number 47 - 51 - 02004
Operator's Well No. Hicks U14H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Middle Grave Creek-Grave Creek Quadrangle Glen Easton, WV 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

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

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

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

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

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

Subscribed and sworn before me this 21st day of May, 2013 COMMONWEALTH OF PENNSYLVANIA
COUNTY OF ALLEGHENY

Laura Savage
Notary Public

My commission expires September 17, 2018

Commonwealth of Pennsylvania - Notary Seal
Laura Savage, Notary Public
Allegheny County
My commission expires September 17, 2018
Commission number 1285773
Member, Pennsylvania Association of Notaries

51-02004

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	Non Aricultural 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: [Signature]

Comments:

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JAN 5 2018

Title: Oil & Gas Inspector

Date: 12/10/17

Field Reviewed? (X) Yes () No

Wv Department of Environmental Protection



Chevron

Appalachian LLC
WV Well Site Safety Plan

Pad: **Hicks Pad A**

Well # U14H

12/6/17

271 Arbor Lane
Moundsville, WV 26041

Clay District

Marshall County, WV

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

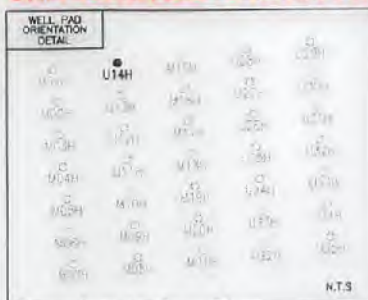
Well Site – [39.871558°N, 80.717794°W]

Marshall County, West Virginia

BHL is located on topo map 5,915 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 1,141 feet south of Latitude: 39° 52' 30"

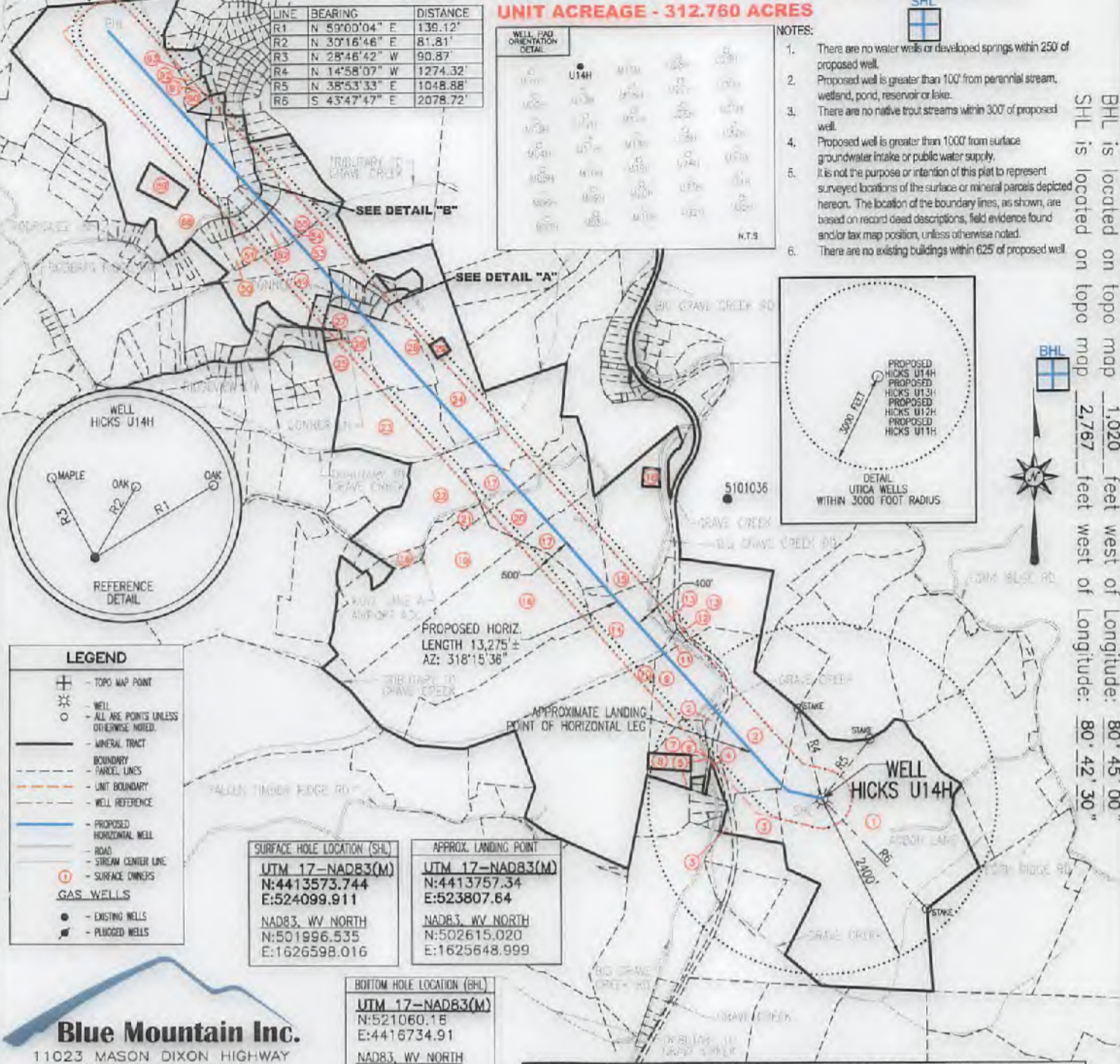
UNIT ACREAGE - 312.760 ACRES

LINE	BEARING	DISTANCE
R1	N 59°00'04" E	139.12'
R2	N 30°16'46" E	81.81'
R3	N 28°46'42" W	90.87'
R4	N 14°58'07" W	1274.32'
R5	N 38°53'33" E	1048.88'
R6	S 43°47'47" E	2078.72'



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

BHL is located on topo map 1,020 feet west of Longitude: 80° 45' 00"
 SHL is located on topo map 2,767 feet west of Longitude: 80° 42' 30"



LEGEND

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

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT
UTM 17-NAD83(M) N:4413573.744 E:524099.911	UTM 17-NAD83(M) N:4413757.34 E:523807.64
NAD83, WV NORTH N:501996.535 E:1626598.016	NAD83, WV NORTH N:502615.020 E:1625648.999

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:521060.18 E:4416734.91
NAD83, WV NORTH N:512536.65 E:1616796.44

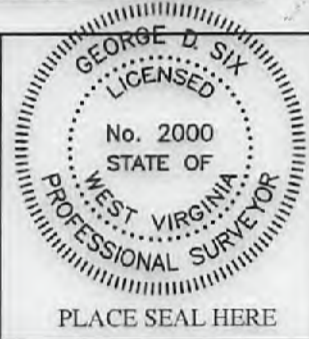
Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

SEE PAGES 3-6 FOR SURFACE OWNERS AND LESSORS

FILE #: HICKS U14H
 DRAWING #: HICKS U14H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

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



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

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: 1079.358±

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

(SPECIFY): _____

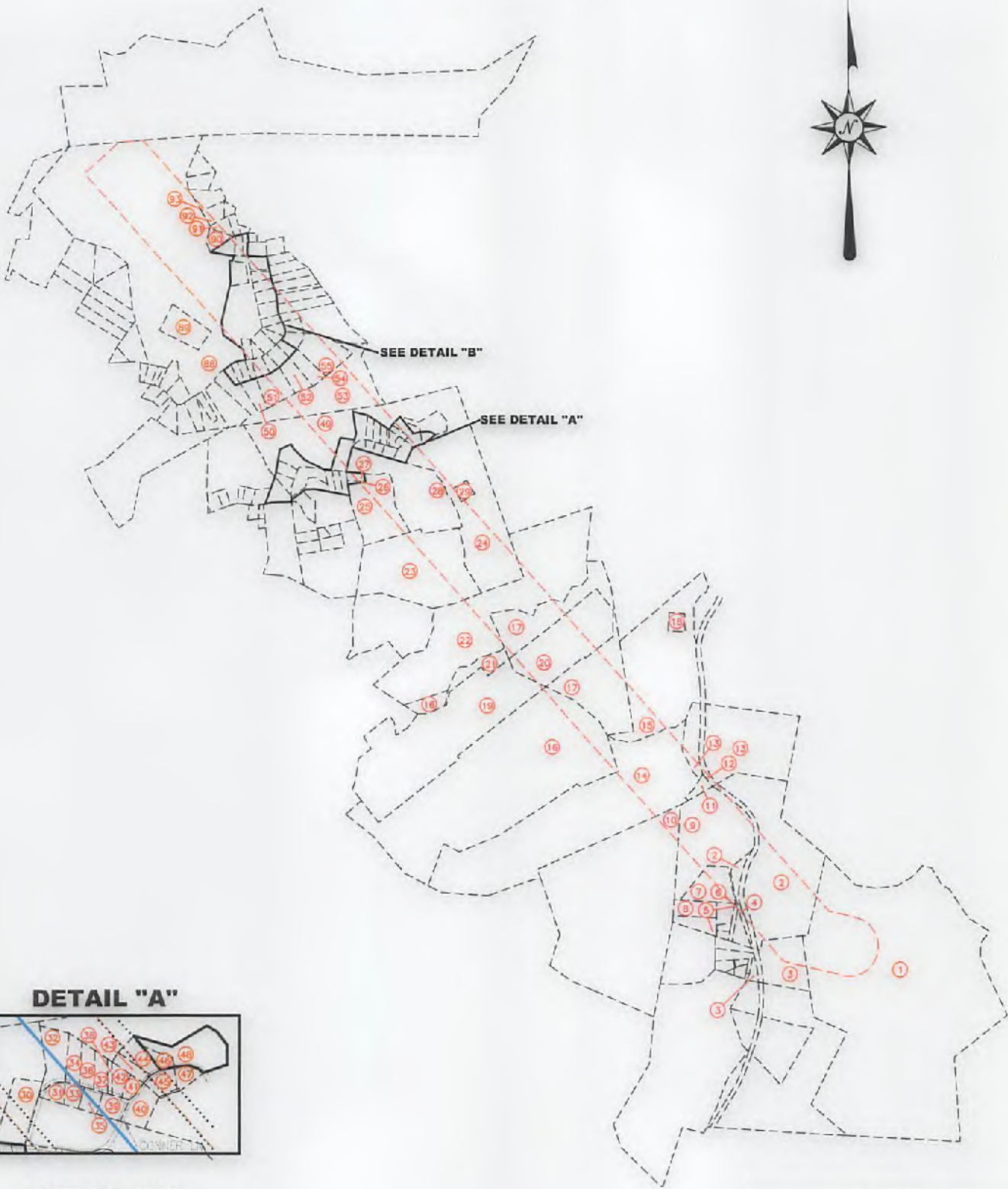
TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,300± TMD: 24,996.85±

WELL OPERATOR CHEVRON APPALACHIA, LLC Address 700 CHERRINGTON PARKWAY City CORAOPOLIS State PA Zip Code 15108

DATE: APRIL 24, 2018
 OPERATOR'S WELL #: HICKS U14H
 API WELL #: 47 51 02004H6A
 STATE COUNTY PERMIT

DESIGNATED AGENT KENNETH E. TAWNEY Address 500 LEE STREET, EAST SUITE 1600 City CHARLESTON State WV Zip Code 25301-3202

HICKS U14H PAGE 2 OF 6



DETAIL "A"



DETAIL "B"



UNIT ACREAGE - 312.760 ACRES

LEGEND

- UNIT BOUNDARY
- PARCEL LINES

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413573.744 E:524099.911	UTM 17-NAD83(M) N:4413757.34 E:523807.64	UTM 17-NAD83(M) N:521060.16 E:4416734.91
NAD83, WV NORTH N:501996.535 E:1626598.016	NAD83, WV NORTH N:502615.020 E:1625648.999	NAD83, WV NORTH N:512536.65 E:1616796.44

51-02004 H6A

HICKS U14H PAGE 3 OF 6

	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
1	THOMAS E. HICKS	CHRISTA DAWN HICKS ET AL	4-8/37
2	RONALD ELWOOD STERN ET UX	CHESAPEAKE APPALACHIA, L.L.C.	4-8/35
3	VICKIE L. & SIDNEY P. POND	SIDNEY P. POND ET UX	4-8/36.1
4	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	CNX GAS COMPANY LLC	4-8/39
5	RICHARD E. LITMAN JR. ET UX	JAMES A. LOGWOOD	4-8/29
		JONATHAN P. LOGWOOD	
		TINA BARINGER	
		DONALD HENDERSON	
		CARMEN SWARTZ	
		TIMOTHY A. LOGWOOD	
		VERONICA E. REEVES	
		JOSEPH M. LOGWOOD	
		GARY R. LOGWOOD ET UX	
		JOHN H. MCCLENDON	
		DIANA M. PAYTON ET VIR	
		RONALD S. MCCLENDON	
		REMY P. MCCLENDON	
		JAMES E. PRESLICKA	
		VERONICA E. RICE	
		CHARLES A. LOGWOOD ET UX	
		CYNTHIA J. SIMPSON	
		PHYLIS M. MACK ET VIR	
		ANNETTE G. SPEAR	
		JUDITH DIANE HAMLIN	
		BRENDA F. BLANCHARD	
		GARY N. UNDERWOOD	
		LISA R. EARLEY	
		TERRI M. THOMAS	
		KATHY J. CRAWFORD ET VIR	
		TIMOTHY P. LOGWOOD	
		YOLANDA L. KOPASKY ET VIR	
		MICHAEL C. WEST	
		TAMARA WILLIAMS	
		TONI R. WATSON ET VIR	
		CHARLES R. SIMPSON ET UX	
		KIMBERLY S. WHITE	
		DELORES L. SMITH	
		BETHEL YVONNE WINSTON BY AIF EDWARD WINSTON	
		NICOLE L. JEFFRIES	
		CLYDE E. SIMPSON JR.	
		JEAN D. SIMPSON	
		THOMAS W. JOHNSON	
		SHEILA J. ROBINSON ET VIR	
		MARCIA K. GADD ET VIR	
		TERRI YOUNG	
		MAURICETTA JETER	
		KENT WEST	
		ROSLYN E. LETT-RENTY ET VIR	
		SUE ANN STRAUGHTER	
		PRISCILLA ANN CHAMBERS	
		RICHARD HENDERSON	
		VAL ANDREW WINER ET UX	
		LINDA CHANDLER	
		RICHARD E. LITMAN ET UX	
		ALGEA RENEE HAMLIN	
		CHRISTOPHER L. LOGWOOD	
		KEVIN D. LAMBERT	
		GINGER LEE RUSH AIF PATRICIA ANN SMITH	
		CONSTANCE DANAE BETTS	
		JEREMIE BETTS	
		ALLEN HENDERSON	
		JOAN BETTS	
		EDITH P. FRENZLEY	
		CONSTANCE J. BELT	
		ROBERT LEFT	
		SHELLY R. LOGWOOD	
		SHERRY A. SMITH	
		RICHARD E. LITMAN ET UX	
6	RICHARD E. LITMAN JR.	RICHARD E. LITMAN ET UX	4-8/31
7	BRIAN A. & MELISSA A. GUNN	DENVER O. THOMAS, ET UX	4-8/32
8	RICHARD E. LITMAN JR.	JAMES A. LOGWOOD - NOT IN UNIT	4-8/30
		JONATHAN P. LOGWOOD - NOT IN UNIT	
		TINA BARINGER - NOT IN UNIT	
		DONALD HENDERSON - NOT IN UNIT	
		CARMEN SWARTZ - NOT IN UNIT	
		TIMOTHY A. LOGWOOD - NOT IN UNIT	
		VERONICA E. REEVES - NOT IN UNIT	
		JOSEPH M. LOGWOOD - NOT IN UNIT	
		GARY R. LOGWOOD ET UX - NOT IN UNIT	
		JOHN H. MCCLENDON - NOT IN UNIT	
		DIANA M. PAYTON ET VIR - NOT IN UNIT	
		RONALD S. MCCLENDON - NOT IN UNIT	

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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413573.744 E:524099.911	UTM 17-NAD83(M) N:4413757.34 E:523807.64	UTM 17-NAD83(M) N:521060.16 E:4416734.91
NAD83_WV NORTH N:501996.535 E:1626598.016	NAD83_WV NORTH N:502615.020 E:1626648.999	NAD83_WV NORTH N:512536.65 E:1616796.44

HICKS

U14H

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	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
8	CONTINUED	REMY P. MCCLENDON - NOT IN UNIT JAMES E. PRESLICKA - NOT IN UNIT VERONICA E. RICE - NOT IN UNIT CHARLES A. LOGWOOD ET UX - NOT IN UNIT CYNTHIA J. SIMPSON - NOT IN UNIT PHYLLIS M. MACK ET VIR - NOT IN UNIT ANNETTE G. SPEAR - NOT IN UNIT JUDITH DIANE HAMLIN - NOT IN UNIT BRENDA F. BLANCHARD - NOT IN UNIT GARY N. UNDERWOOD - NOT IN UNIT LISA R. EARLEY - NOT IN UNIT TERRI M. THOMAS - NOT IN UNIT KATHY J. CRAWFORD ET VIR - NOT IN UNIT TIMOTHY P. LOGWOOD - NOT IN UNIT YOLANDA L. KOPASKY ET VIR - NOT IN UNIT MICHAEL C. WEST - NOT IN UNIT TAMARA WILLIAMS - NOT IN UNIT TONI R. WATSON ET VIR - NOT IN UNIT CHARLES R. SIMPSON ET UX - NOT IN UNIT KIMBERLY S. WHITE - NOT IN UNIT DELORES L. SMITH - NOT IN UNIT BETHEL YVONNE WINSTON BY A/E EDWARD WINSTON - NOT IN UNIT NICOLE L. JEFFRIES - NOT IN UNIT CLYDE E. SIMPSON JR. - NOT IN UNIT JEAN D. SIMPSON - NOT IN UNIT THOMAS W. JOHNSON - NOT IN UNIT SHEILA J. ROBINSON ET VIR - NOT IN UNIT MARCIA K. GADD ET VIR - NOT IN UNIT TERRI YOUNG - NOT IN UNIT MAURICETTA JETER - NOT IN UNIT KENT WEST - NOT IN UNIT ROSLYN E. LETT-RENTY ET VIR - NOT IN UNIT SUE ANN STRAUGHTER - NOT IN UNIT PRISCILLA ANN CHAMBERS - NOT IN UNIT RICHARD HENDERSON - NOT IN UNIT VAL ANDREW WINER ET UX - NOT IN UNIT LINDA CHANDLER - NOT IN UNIT RICHARD E. LITMAN ET UX - NOT IN UNIT ALGEA RENEE HAMLIN - NOT IN UNIT CHRISTOPHER L. LOGWOOD - NOT IN UNIT KEVIN D. LAMBERT - NOT IN UNIT GINGER LEE RUSH A/E PATRICIA ANN SMITH - NOT IN UNIT CONSTANCE DANAE BETTS - NOT IN UNIT JEREMIE BETTS - NOT IN UNIT ALLEN HENDERSON - NOT IN UNIT JOANN BETTS - NOT IN UNIT EDITH P. FRENZLEY - NOT IN UNIT CONSTANCE J. BELT - NOT IN UNIT ROBERT LETT - NOT IN UNIT SHELLY R. LOGWOOD - NOT IN UNIT SHERRY A. SMITH - NOT IN UNIT RICHARD E. LITMAN ET UX - NOT IN UNIT	
9	ROBERT L., JR. & PATSY ANN CLARK	CHESAPEAKE APPALACHIA, L.L.C.	4-8/35.1
10	HENRY W. & LINDA M. ASTON - LIFE	HENRY ASTON ET UX LEO GAMBLE BILLIE D. BRENNAN BARBARA RIGGLE NOREEN G. MILLER ET VIR ANNE LONG HAND ET VIR JOHN M. GAMBLE MARGARET M. VERRALL LARRY MCCULLOUGH MARK CARTER GAMBLE CHARLES PAUL GAMBLE ET UX	4-8/17
11	PATSY ANN CLARK	SANDRA KAY WARNER PATSY SUE BAYHA HALLIE LU PETERSON LUCRETIA LEE DELLA K. BOONE DENNIS PARSONS DR. CASPER E. CLINE CHARLOTTE L. STROMSLAND	4-8/33
12	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	CNX GAS COMPANY LLC - NOT IN UNIT	4-4/74
13	LESTER ALLEN & JANET E. RICHMOND	LESTER ALLEN RICHMOND ET AL	4-4/29
14	CHARLES W. JR., & JUDY MERCER	SANDRA KAY WARNER PATSY SUE BAYHA HALLIE LU PETERSON LUCRETIA LEE DELLA K. BOONE DENNIS PARSONS DR. CASPER E. CLINE CHARLOTTE L. STROMSLAND	4-8/16
15	JANET ELOWISE RICHMOND - LIFE	JANTE RICHMOND ET VIR	4-4/72
16	MARY E. PERSINGER & JANET C. HUNNELL ET AL	JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY A. ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA	4-5/54.1

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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
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NAD83, WV NORTH N:501996.535 E:1626598.016	NAD83, WV NORTH N:502615.020 E:1625648.999	NAD83, WV NORTH N:512536.65 E:1616796.44

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	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
16	CONTINUED	MARY E. PERSINGER JANET C. HUNNELL MICHAEL PERSINGER BETH BLAKE WILLIAM B. FOX LINDA SMITH ANN MILLER KAREN FOX EVANS	
17	MARSHALL CO. AIRPORT AUTHORITY	MARSHALL CO. AIRPORT AUTHORITY	4-4/2
18	WILLARD L. ATWELL ET UX	NOT IN UNIT	4-4/73
19	MARSHALL CO AIRPORT AUTHORITY	JOHN LEONARD FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY A. ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA PAUL T. ARGENTA MARY E. PERSINGER JANET C. HUNNELL MICHAEL PERSINGER BETH BLAKE KAREN FOX EVANS BRAD FOX LINDA S. SMITH ANN MILLER	4-5/54.3
20	MARSHALL CO. AIRPORT AUTHORITY	MARSHALL CO. AIRPORT AUTHORITY	4-4/2.1
21	LENEE J. & SHARON L. CURITTI	LENEE CURITTI ET UX - NOT IN UNIT	4-5/54.6
22	LENEE J. CURITTI ET UX	JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY A. ARGENTA MARY E. PERSINGER KAREN FOX EVANS BRAD FOX LINDA SMITH ANN MACHELE MILLER JANET C. HUNNELL MICHAEL PERSINGER BETH BLAKE WILLIAM P. ARGENTA PAUL T. ARGENTA JOAN E. KRESS	4-5/54.5
23	JAMES L. & KATHY L. DRAKE	JAMES L. DRAKE ET UX	4-5/46.2
24	THOMAS P. & TAMARA R. WOOD	THOMAS P. WOOD ET UX	4-5/45
25	MICHAEL W. THOMAS ET UX	MICHAEL W. THOMAS	4-5/46.3
26	ERIC M. & SAVANNAH L. ANDERSON	BRENT L. SHIPLEY ET UX	4-5/46.4
27	ERIC M. & SAVANNAH L. ANDERSON	BRENT L. SHIPLEY ET UX	4-5/46.1
28	LINDA LEOILA MILLER	ROBERT C. MILLER ET UX	4-5/46
29	THOMAS P. & TAMARA R. WOOD	THOMAS P. WOOD ET UX	4-5/45.6
30	MATTHEW G. GRAY & HOLLY PORTER	MATTHEW W. GRAY ET UX	4-5/34
31	RUSSELL M. MCMAHON ET UX	RUSSELL M. MCMAHON	4-5/36
32	WAYNE W. KAUFMAN ET UX	WAYNE W. KAUFMAN ET UX	4-5/35
33	JAMES A. WATSON ET UX - JESSE JAMES WATSON	RONALD EDWARD WATSON/RICKY LEE WATSON ET AL	4-5/37
34	KAREN D. SPENCER	KAREN D. SPENCER	4-5/38
35	CARROLL KEITH SMITH ET UX	CARROLL KEITH SMITH	4-5/40
36	DAWN M. KARRASCH	DAWN M. MEYER	4-5/39
37	DAWN M. KARRASCH	DAWN M. MEYER	4-5/41
38	DAWN M. KARRASCH	DAWN M. MEYER	4-5/42.1
39	JENNIFER V. ZERVOS	JENNIFER V. WEESE	4-5/43
40	JENNIFER V. ZERVOS	JENNIFER V. WEESE	4-5/45.7
41	ANGELA C. YOHO	ANGELA C. YOHO	4-5/44
42	ANGELA C. YOHO	ANGELA C. YOHO	4-5/42
43	MARY J. DOAN	MARY J. DOAN	4-5/45.1
44	WILLIAM R. & BETTY J. FLUHARTY	WILLIAM R. FLUHARTY ET UX	4-5/45.2
45	RANDALL C. ROGERSON ET UX	RANDALL C. ROGERSON ET UX	4-5/45.4
46	WILLIAM R. & BETTY J. FLUHARTY	NOT IN UNIT	4-5/45.3
47	RANDALL C. & TRACY L. ROGERSON	RANDALL C. ROGERSON ET UX	4-5/45.8
48	ROBERT M. & CORINNE PERRY	NOT IN UNIT	4-5/45.5
49	JOYCE L. RINE	PAUL RINE ET UX	4-5/32.1
50	GEORGE D. & LAURIE E. BUMGARDNER	GEORGE D. BUMGARDNER II ET UX - NOT IN UNIT	4-2/50.9
51	GARY IRWIN NELSON ET UX	GARY NELSON ET UX	4-2/50.4
52	RICHARD EMERY ET UX	RICHARD D. EMERY ET UX	4-2/50.5
53	GREGORY SNIDER	GREGORY SNIDER	4-2/50.7
54	MARGARET E. KELLER	HERMAN W. KELLER ET UX	4-2/50.3
55	ROGER W. GATTS ET UX	ROGER W. GATTS ET UX	4-2/50.2
56	GEORGE D. II & LAURIE BUMGARDNER	GEORGE D. BUMGARDNER II ET UX - NOT IN UNIT	4-2/52.18
57	GEORGE DONALD II & LAURIE ELLEN BUMGARDNER	GEORGE D. BUMGARDNER II ET UX - NOT IN UNIT	4-2/52.15
58	GEORGE DONALD BUMGARDNER II ET UX	GEORGE D. BUMGARDNER II ET UX - NOT IN UNIT	4-2/52.13
59	GEORGE DONALD BUMGARDNER II ET UX	GEORGE D. BUMGARDNER II ET UX	4-2/52.14

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NAD83, WV NORTH N:501996.535 E:1626598.016	NAD83, WV NORTH N:502615.020 E:1625648.999	NAD83, WV NORTH N:512536.65 E:1616796.44

HICKS U14H PAGE 6 OF 6

	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
60	GARY I. NELSON ET UX	GARY NELSON ET UX	4-2/66
61	GARY I. NELSON ET UX	GARY NELSON ET UX	4-2/50.1
62	RICHARD DOUGLAS EMERY ET UX	RICHARD D. EMERY ET UX	4-2/67
63	MARGARET E. KELLER	HERMAN W. KELLER ET UX	4-2/68
64	MATTHEW A. & CANDACE G. MCBEE	MATTHEW A. MCBEE ET UX	4-2/69
65	GREGORY SNIDER	GREGORY SNIDER	4-2/73
66	DEREK T. REED	DEREK T. REED	4-2/65
67	ROGER C. JAMES III ET UX	ROGER C. JAMES III ET UX	4-2/50.6
68	ROGER JAMES ET UX	ROGER C. JAMES III ET UX	4-2/63
69	GREGORY K. WOOD	GREGORY K. WOOD ET UX	4-2/50
70	RUTH MAY CHRISLIP	RUTH M. CHRISLIP	4-2/62
71	RICHARD A. YOUNGER ET UX	RICHARD A. YOUNGER ET UX	4-2/61
72	DONALD GEORGE PIERCE ET UX	DONALD GEORGE PIERCE ET UX	4-2/70
73	GERALD F. PROHASKA	GERALD PROHASKA ET UX	4-2/76
74	CAROL L. GILL	CAROL L. GILL	4-2/60
75	MICHAEL L. VERONIS ET UX	MICHAEL VERONIS ET UX	4-2/59
76	JOSHUA R. & JAMIE L. DOWNING	NATHAN C. PETTIT ET UX	4-2/73.1
77	GEORGE D. BUMGARDNER ET UX ET AL	GEORGE D. BUMGARDNER ET AL	4-2/75
78	GEORGE D. BUMGARDNER ET UX ET AL	GEORGE D. BUMGARDNER ET AL	4-2/74
79	WILLIAM M. YURISKO ET UX	WILLIAM YURISKO ET UX	4-2/71
80	ANDREW ALLEN BARTOLOVICH ET UX	ANDREW A. BARTOLOVICH ET UX	4-2/57
81	ANDREW ALLEN BARTOLOVICH ET UX	ANDREW A. BARTOLOVICH ET UX	4-2/56
82	DEAN M. WINLAND ET UX	DEAN M. WINLAND ET UX	4-2/55
83	BRENDA L. ESTEL & TIMOTHY E. TASKER	BRENDA L. ESTEL ET AL	4-2/50.8
84	ALBERT W. BLEVINS ET UX	ALBERT W. BLEVINS ET UX	4-2/54
85	ALLAN D. GOODE ET UX	ALLAN D. GOODE ET UX	4-2B/5
86	RICHARD A. BEE ET UX	RICHARD A. BEE ET UX	4-2B/4
87	WILLIAM B. & DOTTIE BEE	WILLIAM B. BEE ET UX	4-2B/3
88	GREGORY K. WOOD	GREGORY K. WOOD ET UX	4-2/52
89	GREGORY K. & BONNIE J. WOOD	GREGORY K. WOOD ET UX - NOT IN UNIT	4-2/52.19
90	SEAN P. MONTZ	SEAN MONTZ ET UX	4-2B/6
91	CALVIN L. & TONYA L. LANDIS	CALVIN L. LANDIS ET UX	4-2B/7
92	JAMES R. CHAPLIN	JAMES R. CHAPLIN	4-2B/31
93	JAMES R. CHAPLIN	JAMES R. CHAPLIN	4-2B/32

51-02004
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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
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**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
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See Attached

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

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

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

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

Well Operator: Chevron Appalachia, LLC

By: Jenny Hayes
Its: Permitting Team Lead

RECEIVED
Office of Oil and Gas
JAN 5 2018

Hicks Unit #14H - UTICA - FINAL

Plat Ref #	Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
1	4-8-37	Hicks, Christa Dawn et al	Chevron U.S.A. Inc.	0.18	841/246	n/a	n/a	n/a
2	4-8-35	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	0.125	875/105	36/226 SWN Production Company, LLC to Chevron U.S.A. Inc.	n/a	n/a
4	4-8-39	CNX Gas Company LLC	Chevron U.S.A. Inc.	0.2	818/553	n/a	n/a	n/a
9	4-8-35.1	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	0.125	875/105	36/226 SWN Production Company, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Warner, Sandra Kay	TriEnergy Holdings, LLC	0.16	736/318	25/449 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		Bayha, Patsy Sue	TriEnergy Holdings, LLC	0.16	736/301	25/449 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		Peterson, Hallie Lu	TriEnergy Holdings, LLC	0.16	738/541	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a

10020-15

14	4-8-16	Lee, Lucretia	TriEnergy Holdings, LLC	0.16	742/29	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		Boone, Della K.	TriEnergy Holdings, LLC	0.16	738/544	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Parsons, Dennis	TriEnergy Holdings, LLC	0.16	767/613	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Cline, Casper E. Dr.	TriEnergy Holdings, LLC	0.16	743/477	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Stromsland, Charlotte L.	TriEnergy Holdings, LLC	0.16	753/598	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Warner, Sandra Kay	TriEnergy Holdings, LLC	0.16	736/318	25/449 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		Bayha, Patsy Sue	TriEnergy Holdings, LLC	0.16	736/301	25/449 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

11	4-8-33	Peterson, Hallie Lu	TriEnergy Holdings, LLC	0.16	738/541	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Lee, Lucretia	TriEnergy Holdings, LLC	0.16	742/29	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		Boone, Della K.	TriEnergy Holdings, LLC	0.16	738/544	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Parsons, Dennis	TriEnergy Holdings, LLC	0.16	767/613	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Cline, Casper E. Dr.	TriEnergy Holdings, LLC	0.16	743/477	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		Stromsland, Charlotte L.	TriEnergy Holdings, LLC	0.16	753/598	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		15	4-4-72	Richmond, Janet et vir	Chevron U.S.A. Inc.	0.18	860/240	n/a

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17	4-4-2	Marshall County Airport Authority	AB Resources, LLC	0.125	685/281	756/397 AB Resources LLC to Chevron U.S.A. Inc.	n/a	n/a
20	4-4-2.1	Marshall County Airport Authority	AB Resources, LLC	0.125	685/281	756/397 AB Resources LLC to Chevron U.S.A. Inc.	n/a	n/a
22	4-5-54.5	Fox, John L.	Chevron U.S.A. Inc.	0.155	796/368	n/a	n/a	n/a
		Fox, Karen M.	Chevron U.S.A. Inc.	0.155	796/349	n/a	n/a	n/a
		Preston, Christi F.	Chevron U.S.A. Inc.	0.155	796/524	n/a	n/a	n/a
		Fox, John L. II	Chevron U.S.A. Inc.	0.155	797/52	n/a	n/a	n/a
		Hamilton, Cynthia S.	Chevron U.S.A. Inc.	0.155	796/505	n/a	n/a	n/a
		Argenta, Dorothy A.	Chevron U.S.A. Inc.	0.155	797/89	n/a	n/a	n/a
		Persinger, Mary E.	Chevron U.S.A. Inc.	0.155	796/378	n/a	n/a	n/a
		Evans, Karen Fox	Chevron U.S.A. Inc.	0.155	796/349	n/a	n/a	n/a
		Fox, Brad	Chevron U.S.A. Inc.	0.155	796/522	n/a	n/a	n/a
		Smith, Linda	Chevron U.S.A. Inc.	0.155	797/99	n/a	n/a	n/a
		Miller, Ann Machele	Chevron U.S.A. Inc.	0.155	796/634	n/a	n/a	n/a
		Hunnell, Janet C.	Chevron U.S.A. Inc.	0.155	797/252	n/a	n/a	n/a
		Persinger, Michael	Chevron U.S.A. Inc.	0.155	797/242	n/a	n/a	n/a
		Blake, Beth	Chevron U.S.A. Inc.	0.155	797/232	n/a	n/a	n/a
		Argenta, William P.	Chevron U.S.A. Inc.	0.155	797/222	n/a	n/a	n/a
Argenta, Paul T.	Chevron U.S.A. Inc.	0.155	797/577	n/a	n/a	n/a		
Kress, Joan E.	Chevron U.S.A. Inc.	0.155	797/262	n/a	n/a	n/a		
23	4-5-46.2	Drake, James L. et ux	Chevron U.S.A. Inc.	0.18	834/386	n/a	n/a	n/a
24	4-5-45	Wood, Thomas P. et ux	NPAR, LLC	0.18	750/322	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a	n/a
28	4-5-46	Miller, Robert C. et ux	Chevron U.S.A. Inc.	0.18	837/319	n/a	n/a	n/a

15-0000-0000

49	4-5-32.1	Rine, Paul et ux	AB Resources, LLC	0.125	686/97	24/466 AB Resources LLC to Chief Exploration & Developme nt LLC and Radler 200 Limited Partnership	25/105 Chief Exploration & Developme nt LLC and Radler 200 Limited Partnership to Chevron U.S.A. Inc.	n/a
33	4-5-37	Watson, Ronald Edward	Chevron U.S.A. Inc.	0.18	848/486	n/a	n/a	n/a
		Watson, Ricky Lee et al	Chevron U.S.A. Inc.	0.18	848/450	n/a	n/a	n/a
35	4-5-40	Smith, Carroll Keith	TriEnergy Holdings, LLC	0.16	728/373	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
39	4-5-43	Weese, Jennifer V.	Chevron U.S.A. Inc.	0.18	840/416	n/a	n/a	n/a
36	4-5-39	Meyer, Dawn M.	TriEnergy Holdings, LLC	0.18	730/605	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
34	4-5-38	Spencer, Karen D.	TriEnergy Holdings, LLC	0.16	727/189	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
32	4-5-35	Kaufman, Wayne W. et ux	Chevron U.S.A. Inc.	0.18	863/609	n/a	n/a	n/a
53	4-2-50.7	Snider, Gregory	Chevron U.S.A. Inc.	0.18	847/88	n/a	n/a	n/a

15-0209

83	4-2-50.8	Estel, Brenda L. et al	TriEnergy Holdings, LLC	0.16	715/163	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
69	4-2-50	Wood, Gregory K. et ux	Chevron U.S.A. Inc.	0.18	838/555	n/a	n/a	n/a
75	4-2-59	Veronis, Michael et ux	TriEnergy Holdings, LLC	0.16	720/190	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
74	4-2-60	Gill, Carol L.	TriEnergy Holdings, LLC	0.16	714/83	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
71	4-2-61	Younger, Richard A. et ux	Chevron U.S.A. Inc.	0.18	898/255	n/a	n/a	n/a
64	4-2-69	McBee, Matthew A. et ux	NPAR, LLC	0.18	739/63	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a	n/a
63	4-2-68	Keller, Herman W. et ux	TriEnergy Holdings, LLC	0.16	714/71	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
70	4-2-62	Chrislip, Ruth M.	TriEnergy Holdings, LLC	0.16	714/470	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
54	4-2-50.3	Keller, Herman W. et ux	TriEnergy Holdings, LLC	0.16	714/71	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
88	4-2-52	Wood, Gregory K. et ux	Chevron U.S.A. Inc.	0.18	838/555	n/a	n/a	n/a

15-0000



Madeline Fitzgerald
Land Representative

November 20, 2017

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

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

To whom it may concern:

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

Sincerely,

Madeline Fitzgerald
Land Representative

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

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

Date of Notice Certification: 11/28/17

API No. 47- _____
Operator's Well No. U14H
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>524101.886</u>
County: <u>Marshall</u>		Northing: <u>4413564.819</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WW-17</u>	
Quadrangle: <u>Glen Easton, WV 7.5'</u>	Generally used farm name: <u>Hicks</u>	
Watershed: <u>Middle Grave Creek-Grave Creek</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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JAN 5 2018
WV Department of
Environmental Protection

Required Attachments:

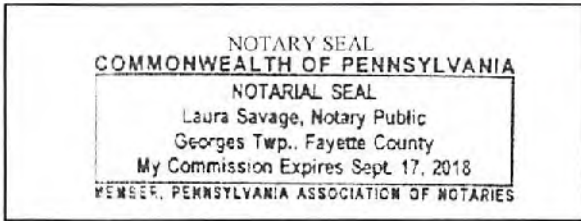
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Certification of Notice is hereby given:

THEREFORE, I Jenny Hayes, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

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

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



Subscribed and sworn before me this 3rd day of January, 2018.
Laura Savage Notary Public
My Commission Expires September 17, 2018

Oil and Gas Privacy Notice:

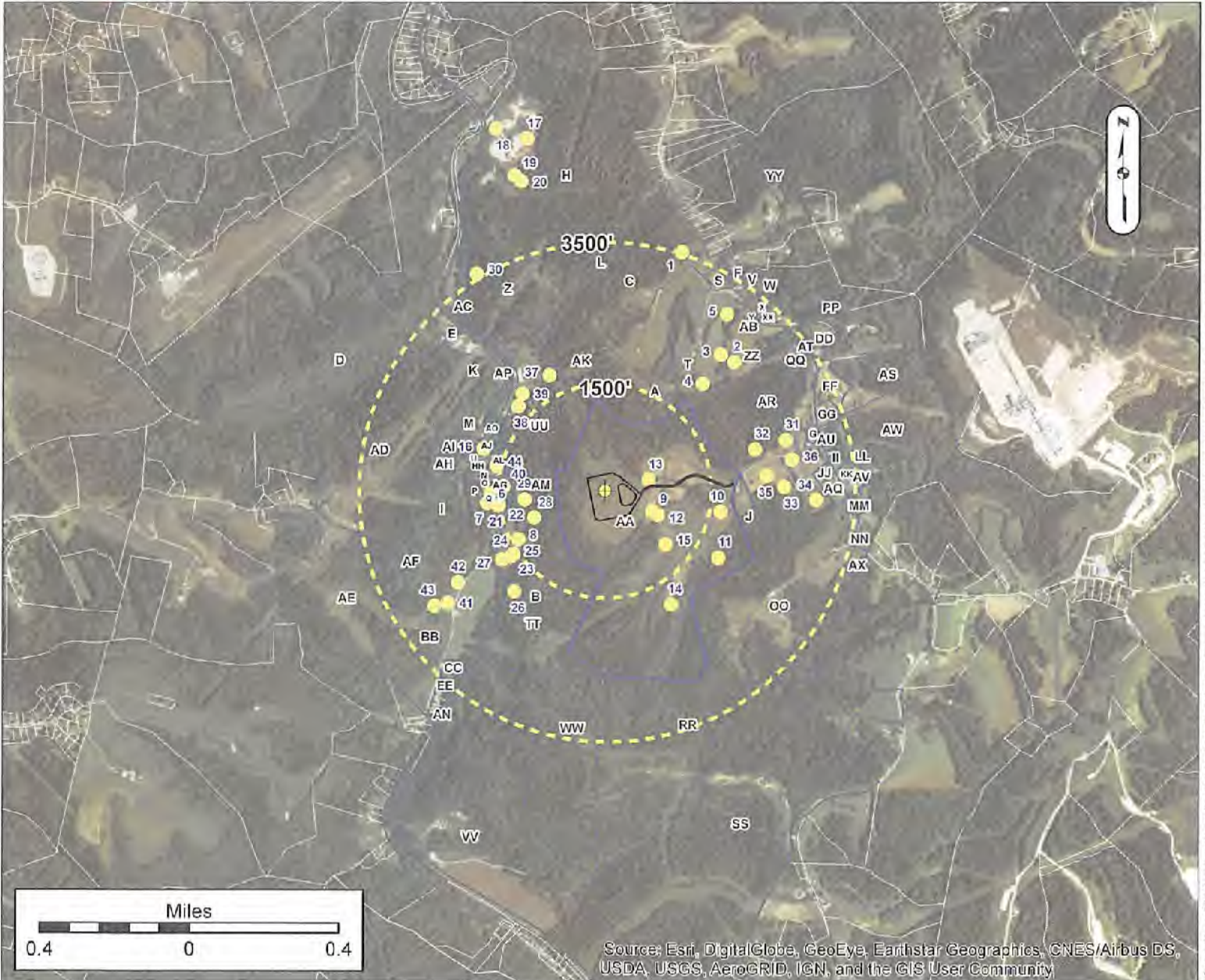
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

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JAN 5 2018
WV Department of
Environmental Protection



WATER SUPPLY EXHIBIT HICKS PAD

S1-02004
GES



LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM			
A	SCHAFER LESLIE P & LORI	25-04 800800000000	GL	CLAYTON RALPH L ET UX	25-04 800250000000	GG	SCHULMAN LARRY J & WYANNE E	25-04 20002200000000	WW	COSTER EDWARD B ET UX EST'S	25-04 10000200000000	AN	CONSOLIDATED COAL COMPANY	25-04 800300000000
B	FOND SIDNEY P ET UX	25-04 800900000000	R	FOND SIDNEY P & VICKI L	25-04 8007500010000	HH	WYNER VAL ANDREW ET UX	25-04 80029000000000	OK	FERRELL ROBERT V ET UX	25-04 80050000000000	AO		25-04 800900000000
C	CLARKE ROSA E & DAVID R	25-04 800700000000	S	REDFORD ST LEE AL	25-04 8007500010000	II	BUSH ROGER W S JR TH L	25-04 80001500100000	TV	DE WICHAW W H ET UX	25-04 80050000000000	AF		25-04 800900000000
D	SPRENGER ABILEY W JR & LUDY	25-04 800800000000	T	CHRYSLER MONTE F ET UX	25-04 8003800010000	JJ	HENRY SPENCE C LIFE	25-04 80002300100000	ZZ	CHAMBERS BILLY D & MONTE	25-04 80050010000000	AD	HENRY MINNIE L 187	25-04 80001000100000
E	CLARK SALLY ANN	25-04 800830000000	U	JIMMAY BERNARD J JR ET UX	25-04 8002000010000	KK	KOCCHE MARTHA F & JAMES I	25-04 80002300100000	AE	CORNFELDER DONALD ET UX	25-04 80050010000000	AP	RYAN JEFFREY L	25-04 80001000200000
F	LETTLETON HARRY E HONEY ET UX	25-04 800300000000	V	RIDD JAMES E ET UX	25-04 8002000010000	LL	NUNO CAROL LYNN ET UX	25-04 80007000000000	AC	CONSOLIDATION COAL COMPANY	25-04 80030000000000	AS	SCHULMAN GLENN J & S ZANVE	25-04 800000000000
G	HIPKES TERRY SA V	25-04 800000000000	W	TRIPLET JASON L & TRICIA L	25-04 80038000000000	MM	LYONS CHRISTINA S	25-04 80009000000000	AD	ASTON HE NRY W & LINDA M-LEE	25-04 80010000000000	AT	RYAN JEFFREY L	25-04 80001011700000
H	MOUNTAINVIEW ENTERPRISES LLC	25-04 800800000000	X	STERN JAMES S MARTIN ET UX	25-04 80034000000000	NN	MILLER ROBERT D ET UX	25-04 80008000000000	AE	BONAR FAMILY TRUST/CABLE TR	25-04 80008000000000	AW	LDISH ROGER W & JUDY L	25-04 80002001800000
I	LITMAN RICHARD L SR	25-04 8007000010000	Y	CARPENTER DONALD T JR	25-04 80050000200000	OO	BUCHANAN JAMES R ET UX	25-04 80010000000000	AF	WILLIAMS MABEL L ANITA	25-04 80009000000000	AX	KOONCE JAMES L	25-04 80002001400000
J	HICKS THOMAS E	25-04 8003000010000	Z	RICHMOND JANE T BLOWISE	25-04 80020000000000	PP	FERRELL ROBERT V ET UX	25-04 80050000000000	AG	FOND SIDNEY P & VICKI L	25-04 80060000000000	BB	SCHULMAN JAMES R ET UX	25-04 80001000100000
K	MORRIS DONALD ET UX	25-04 8003000010000	AA	MILES THOMAS A	25-04 80037000000000	QQ	MCGARRY RUBY LAVENE ET AL LIFE	25-04 80002000000000	AH	LITMAN RICHARD L SR	25-04 80020000000000	CC		
L	CONCHOSE ROSE FR	25-04 800300000000	BB	WILLIAMS MABEL BURNITA	25-04 80023000000000	RR	COSTER EDWARD B ET UX EST'S	25-04 10000200000000	AI	LITMAN RICHARD L SR	25-04 80030000000000	DD		
M	THOMAS DENVER O ET UX	25-04 800800000000	CC	MARTIN KAM LYN	25-04 80023000000000	SS	WILKINSON GLENN D ET UX	25-04 80000000000000	AJ	LITMAN RICHARD L SR	25-04 80030000000000	EE		
N	WHITLATCH RICHARD P & JAMES L	25-04 80078000000000	DD	BLAKE ORVILLE E CHURCH	25-04 80091000000000	TT	SHAWVILLE LAVEN	25-04 80000000000000	AK	SCHABER LESLIE S & LORE D	25-04 80030000000000	FF		
O	TAOIG KENNETH B	25-04 800700000000	EE	ALLMAN MICHAEL RAY	25-04 80023000200000	UU	STERN DONALD E JAMES D ET UX	25-04 80008000000000	AL	LITMAN RICHARD L SR	25-04 80030000000000	GG		
P	LANTON RALPH L ET UX	25-04 8001800010000	FF	BENJAMIN JASON C & CHRISTINA M	25-04 80000000000000	VV	ROUNDVILLE CITY OF	25-04 1000010000000000	AM	FOND VICKI I & SIDNEY P	25-04 80060000100000	HH		

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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Office of Oil and Gas

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.



WATER SUPPLY EXHIBIT
HICKS PAD



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	GAREY LILLIE LAVERN	Well	539	798 Big Grave Creek Road	304-843-1522
9	HICKS THOMAS E	Well	1,112	353 Arbor Lane	304-559-7031
10	HICKS THOMAS E	Well	1,156	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	U11H	U12H	U13H	U14H	M08H	M09H	M10H	M20H	M21H
1	39°52'51.56400"N 80°42'52.07400"W	3,525	3,512	3,499	3,485	3,564	3,551	3,538	3,536	3,550
2	39°52'36.41880"N 80°42'42.33960"W	2,569	2,560	2,552	2,544	2,593	2,585	2,576	2,560	2,568
3	39°52'37.48800"N 80°42'44.78400"W	2,522	2,512	2,503	2,493	2,549	2,540	2,530	2,516	2,526
4	39°52'33.37320"N 80°42'48.02040"W	2,041	2,032	2,023	2,014	2,068	2,059	2,049	2,034	2,044
5	39°52'43.06080"N 80°42'43.80120"W	3,020	3,009	3,000	2,989	3,051	3,041	3,030	3,019	3,030
6	39°52'17.70240"N 80°43'26.01840"W	1,612	1,609	1,607	1,604	1,620	1,617	1,614	1,647	1,650
7	39°52'16.34520"N 80°43'26.69160"W	1,675	1,673	1,672	1,671	1,679	1,678	1,676	1,708	1,710
8	39°52'11.42040"N 80°43'20.97120"W	1,401	1,405	1,410	1,416	1,388	1,392	1,397	1,421	1,417
9	39°52'15.61800"N 80°42'56.81880"W	719	728	737	746	695	703	711	678	669
10	39°52'15.67920"N 80°42'44.41320"W	1,656	1,661	1,667	1,673	1,640	1,645	1,650	1,617	1,611
11	39°52'09.33240"N 80°42'44.70120"W	1,849	1,859	1,869	1,880	1,820	1,829	1,839	1,807	1,797
12	39°52'15.11040"N 80°42'55.73160"W	817	826	835	844	793	800	809	776	767
13	39°52'19.97760"N 80°42'57.50640"W	637	636	636	636	641	640	638	609	611
14	39°52'02.75520"N 80°42'53.05680"W	1,842	1,856	1,870	1,885	1,800	1,813	1,828	1,804	1,799
15	39°52'11.07840"N 80°42'54.26280"W	1,132	1,144	1,156	1,169	1,097	1,109	1,121	1,091	1,078

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*WATER SOURCE PREVIOUSLY LOCATED IN 2016.

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JAN 5 2018



WATER SUPPLY EXHIBIT
HICKS PAD



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 & VICKIE L	Well	733	3331 Big Grave Creek	304-845-6520
24	POND SIDNEY P ET UX	Well	733	3331 Big Grave Creek	304-845-6520
25	POND SIDNEY P ET UX	Stream	729	3331 Big Grave Creek	304-845-6520
26	POND SIDNEY P ET UX	Stream	734	3331 Big Grave Creek	304-845-6520
27	POND SIDNEY P ET UX	Stream	716	3331 Big Grave Creek	304-845-6520
28	POND VICKIE L & SIDNEY P	Spring	716	3331 Big Grave Creek	304-845-6520
29	POND VICKIE L & SIDNEY P	Spring	725	3331 Big Grave Creek	304-845-6520
30	RICHMOND, LESTER A.	Spring	713	350 Falls Creek Lane	304-231-7656

No.	SUPPLY COORDINATES	U11H	U12H	U13H	U14H	M08H	M09H	M10H	M20H	M21H
16	39°52'23.84760"N 80°43'27.50880"W	1,817	1,809	1,801	1,794	1,839	1,832	1,824	1,857	1,865
17	39°53'06.90360"N 80°43'20.49600"W	5,062	5,046	5,031	5,016	5,106	5,091	5,076	5,091	5,107
18	39°53'08.20680"N 80°43'26.22000"W	5,309	5,294	5,279	5,264	5,353	5,339	5,323	5,341	5,357
19	39°53'01.81320"N 80°43'22.71360"W	4,610	4,594	4,580	4,564	4,654	4,639	4,624	4,642	4,657
20	39°53'00.99240"N 80°43'21.41040"W	4,501	4,486	4,471	4,455	4,545	4,531	4,515	4,532	4,548
21	39°52'16.07880"N 80°43'24.79080"W	1,531	1,530	1,529	1,529	1,535	1,533	1,532	1,563	1,565
22	39°52'16.09680"N 80°43'24.59280"W	1,516	1,515	1,514	1,513	1,519	1,518	1,517	1,548	1,549
23	39°52'09.12000"N 80°43'22.12680"W	1,602	1,609	1,614	1,621	1,585	1,591	1,597	1,619	1,614
24	39°52'09.12000"N 80°43'22.12680"W	1,602	1,609	1,614	1,621	1,585	1,591	1,597	1,619	1,614
25	39°52'09.37560"N 80°43'21.80280"W	1,567	1,573	1,579	1,585	1,550	1,555	1,562	1,584	1,578
26	39°52'04.21680"N 80°43'21.55080"W	1,902	1,912	1,920	1,930	1,876	1,885	1,894	1,910	1,901
27	39°52'08.58720"N 80°43'23.84040"W	1,743	1,749	1,754	1,761	1,727	1,732	1,738	1,760	1,755
28	39°52'14.48400"N 80°43'18.15960"W	1,069	1,072	1,074	1,077	1,063	1,065	1,067	1,095	1,093
29	39°52'16.92640"N 80°43'19.92720"W	1,144	1,143	1,141	1,141	1,149	1,147	1,145	1,177	1,179
30	39°52'48.08280"N 80°43'29.22960"W	3,545	3,530	3,516	3,502	3,587	3,573	3,558	3,582	3,597

JAN 5 2018

WV Department of
Environmental Protection

*WATER SOURCE PREVIOUSLY LOCATED IN 2016.



WATER SUPPLY EXHIBIT
HICKS PAD



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	U11H	U12H	U13H	U14H	M08H	M09H	M10H	M20H	M21H
31	39°52'25.74120"N 80°42'32.81040"W	2,649	2,648	2,647	2,646	2,653	2,652	2,650	2,622	2,623
32	39°52'24.38040"N 80°42'38.32920"W	2,198	2,196	2,196	2,195	2,201	2,200	2,199	2,170	2,171
33	39°52'19.25400"N 80°42'32.95440"W	2,530	2,533	2,536	2,538	2,523	2,525	2,528	2,496	2,493
34	39°52'17.52240"N 80°42'27.14760"W	2,982	2,986	2,989	2,993	2,972	2,975	2,979	2,946	2,942
35	39°52'20.74440"N 80°42'36.21240"W	2,288	2,289	2,291	2,293	2,284	2,285	2,286	2,255	2,253
36	39°52'23.03040"N 80°42'31.56120"W	2,680	2,681	2,682	2,682	2,679	2,680	2,680	2,649	2,649
37	39°52'34.17960"N 80°43'15.74760"W	1,802	1,787	1,772	1,757	1,845	1,831	1,816	1,838	1,853
38	39°52'29.81640"N 80°43'21.30600"W	1,706	1,693	1,681	1,668	1,742	1,730	1,717	1,747	1,760
39	39°52'31.56960"N 80°43'20.56800"W	1,793	1,780	1,767	1,753	1,832	1,819	1,806	1,833	1,847
40	39°52'18.70320"N 80°43'23.80080"W	1,438	1,435	1,431	1,428	1,449	1,446	1,442	1,475	1,479
41	39°52'02.46720"N 80°43'33.52080"W	2,717	2,724	2,729	2,736	2,699	2,705	2,712	2,733	2,727
42	39°52'05.32560"N 80°43'31.72080"W	2,438	2,444	2,449	2,454	2,423	2,428	2,433	2,456	2,451
43	39°52'02.01720"N 80°43'35.95440"W	2,898	2,905	2,910	2,916	2,882	2,887	2,893	2,915	2,910
44	39°52'21.57240"N 80°43'25.11480"W	1,576	1,570	1,563	1,558	1,595	1,588	1,588	1,622	1,622

JAN 5 2018

WV Department of
Environmental Protection

*WATER SOURCE PREVIOUSLY LOCATED IN 2016.

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

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

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

Notice of:

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

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

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

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

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

SURFACE OWNER(s) ✓
 Name: Thomas E. Hicks
 Address: 353 Arbor Lane
Moundsville, WV 26041
 Name: _____
 Address: _____

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

COAL OPERATOR ✓
 Name: Murray Energy
 Address: 46229 National Road
St. Clairsville, OH 43950

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

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 Name: see attached
 Address: _____

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

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

*Please attach additional forms if necessary

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Office of Oil and Gas

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

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Office of Oil and Gas

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.

JAN 5 2018

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.

WV Department of
Environmental Protection

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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Environmental Protection

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 51 - 02004
OPERATOR WELL NO. U14H
Well Pad Name: Hicks

Notice is hereby given by:

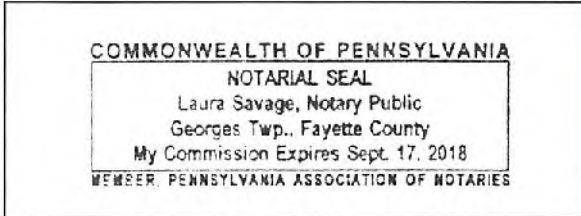
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: jzyk@chevron.com

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

Jenny Hayes

Oil and Gas Privacy Notice:

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



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

Laura Savage Notary Public

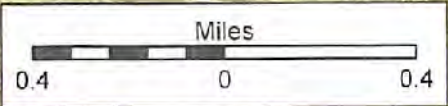
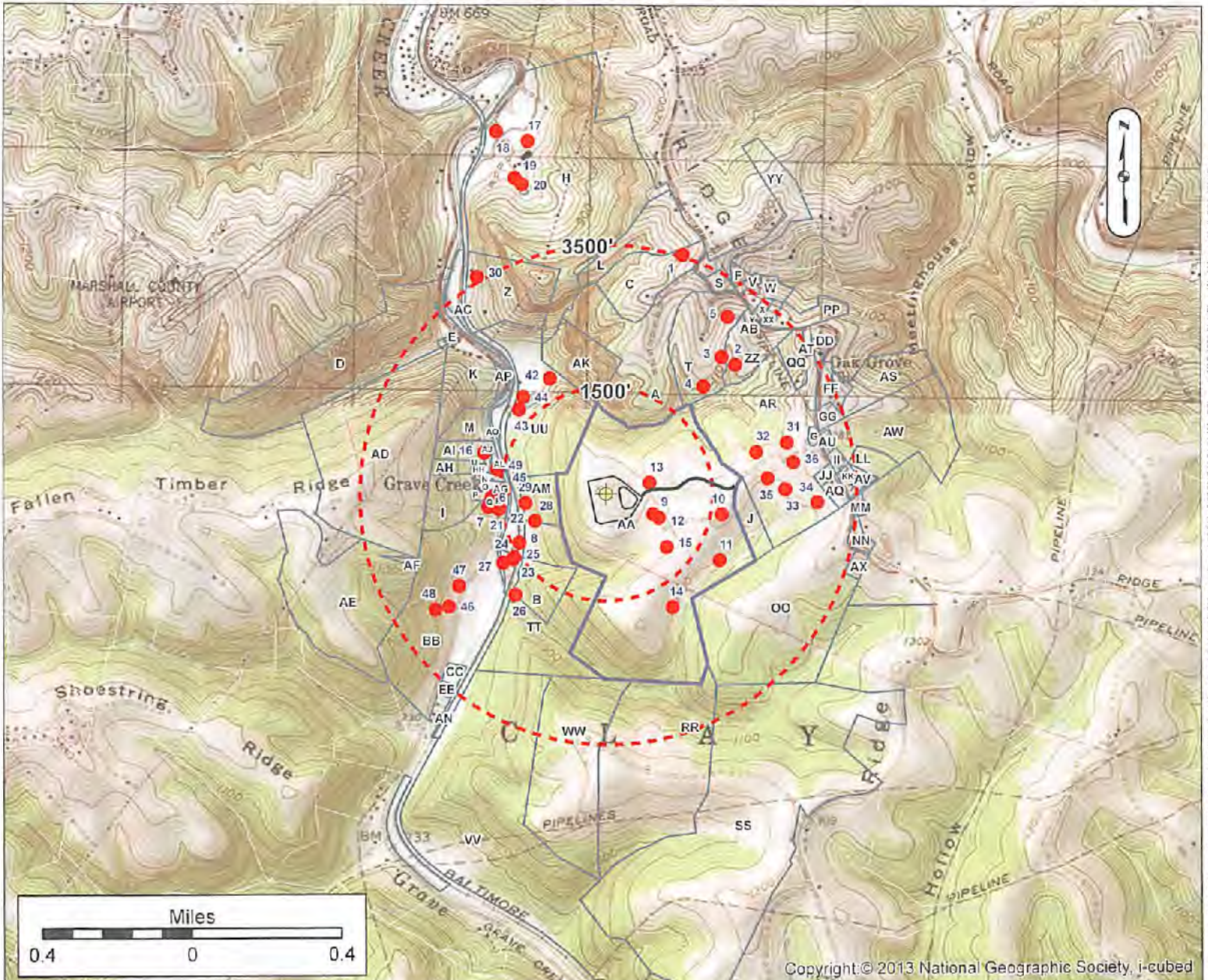
My Commission Expires September 17, 2018

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WV Department of
Environmental Protection



WATER SUPPLY EXHIBIT HICKS PAD

SI-02004



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LOT OWNERS

Label	OWNER	TMI	Label	OWNER	TMI	Label	OWNER	TMI	Label	OWNER	TMI
A	SUMNER LESLIE R & BONI	25-04 800180000000	G	FRAYSON RALPH J ET UX	25-04 800220000000	GG	SC HAVAN GUERREY J & SUCANNE K	25-04 900220000000	WW	LOS, IRELYN W & L A ESTE	25-04 800300000000
B	FOND SIDNEY F ET UX	25-04 800160000000	H	FOND SIDNEY F & VICKI L	25-04 800250000000	HH	WILKIE WALTER W ET UX	25-04 800250000000	XX	FERRILL ROBERT W ET UX	25-04 420160000000
C	ADKINS JACOB S & DAWN B	25-04 800170000000	I	CHEN ALBERT L ET UX	25-04 800280000000	II	BLUSH ROGER W & JUDY L	25-04 900100100000	YY	DON JOHN W B ET UX	25-04 420180000000
D	MERLE H CHARLES W JR & JUDY	25-04 800180000000	J	CHAMBER MONTRE E ET UX	25-04 800290000000	JJ	HENRY M MARI L LIFE	25-04 900200000000	ZZ	CHARLES ALANDA & MONTE	25-04 420180000000
E	CLARK PATSY ANN	25-04 800180000000	K	LITMAN RICHARD T JR ET UX	25-04 800290000000	KK	KOOSCE MARTHA J & JAMES L	25-04 900220000000	AA	CARPENTER DONALD F ET UX	25-04 420180000000
F	LITTLETON LARRY LEROY ET UX	25-04 400150000000	L	KIDD JAMES L ET UX	25-04 800290000000	LL	DUNN CAROL LYNN P ET UX	25-04 900200000000	AB	EDMOND BAY ON COAL COMPANY	25-04 420170000000
G	HICK TEESLA M	25-04 800200000000	M	TRIPLETT JUDITH A TRICIA	25-04 400170000000	MM	BYGONE E RUSTINA S	25-04 900200000000	AC	ASTON HEARY JR & EMMA M LIFE	25-04 800170000000
H	WID, WAMPER FOSTER FRANK LIC	25-04 420120000000	N	STERN JAMES MARTIN ET UX	25-04 400250000000	NN	MILLER ROBERT D ET UX	25-04 900180000000	AD	BOYAR TAMAR F REBECCA R TR	25-04 800180000000
I	LITMAN RICHARD D SA	25-04 800180000000	O	KARNEY ER DONALD S ET UX	25-04 400280000000	OO	DU CHANCA JAMES R ET UX	25-04 900170000000	AE	WILLIAMS MAEL JANITA	25-04 800180000000
J	HILLO LUCILLE S	25-04 800170000000	P	WILKINSON JAVY FLEWIS	25-04 400250000000	PP	FERRILL ROBERT W ET UX	25-04 800250000000	AF	FOND SIDNEY F & VICKI S	25-04 800260000000
K	WONKIS DONN T ET UX	25-04 800180000000	Q	HICKS THOMAS E	25-04 800270000000	QQ	MCCARY RUBY LYVONNE ET AL LIFE	25-04 900220000000	AG	LITMAN RICHARD E SR	25-04 800180000000
L	CONCHOFF JOSEPH	25-04 400190000000	R	W LURINS MARIEL ALPHEA	25-04 800212000000	RR	COSTER EDWARD B ET UX ESTS	25-04 10000100000000	AH	LITMAN RICHARD E SR	25-04 800180000000
M	THOMAS DEWEY O ET UX	25-04 800180000000	S	MARTIN SAM LYNN	25-04 800170000000	SS	WINGROVE DONALD ET UX	25-04 10000100000000	AI	LITMAN RICHARD E SR	25-04 800180000000
N	WIMPLATE RICHARD FR JAVIE	25-04 800170000000	T	DAK O'NEAL M C BURKH	25-04 800190000000	TT	GREY LILLIE LAVINA	25-04 800180000000	AJ	SCHEIDT R ELISE B & JOHN D	25-04 800180000000
O	FRAGG KENNETH B	25-04 800170000000	U	HILLARY JOY MARLA	25-04 800210000000	UU	ETTER DONALD E WOOD ET UX	25-04 800180000000	AK	LITMAN RICHARD E SR	25-04 800180000000
P	STANTON KATHLEEN ET UX	25-04 800180000000	V	HENRY MARIANNE C & CHRISTINA M	25-04 900170100000	VV	WINDMILL CITY CO	25-04 10000100000000	AL	FOND SIDNEY F & VICKI S	25-04 800180000000

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

RECEIVED
 Office of Oil and Gas
 GROUNDWATER & ENVIRONMENTAL
 SERVICES, INC.
 JAN 5 2018

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

Attachment

API No. 47- _____ - _____

OPERATOR WELL NO. U14HWell Pad Name: Hicks

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

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JAN 5 2018

WV Department of
Environmental Protection

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

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

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

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

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

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

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

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 524191.886
County: Marshall Northing: 4413564.819
District: Clay Public Road Access: Fork Ridge Road/WW-17
Quadrangle: Glen Easton, 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(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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Office of Oil and Gas
JAN 5 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 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>524101.886</u>
County:	<u>Marshall</u>		Northing:	<u>4413564.819</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek-Grave Creek</u>			

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

*Please check the box that applies

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

FOR EXECUTION BY A NATURAL PERSON

Signature: [Signature]
Print Name: VICKIE L POND
Date: 12-2-17

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

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Office of Oil and Gas

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WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

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

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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, 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>524101.886</u>
County: <u>Marshall</u>	UTM NAD 83 Northing: <u>4413564.819</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WW-17</u>
Quadrangle: <u>Glen Easton, WV 7.5'</u>	Generally used farm name: <u>Hicks</u>
Watershed: <u>Middle Grave Creek-Grave Creek</u>	

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

*Please check the box that applies

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

FOR EXECUTION BY A NATURAL PERSON

Signature: [Signature]
Print Name: Sidney P Pond
Date: 12-3-17

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

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Office of Oil and Gas

JAN 5 2018

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I, Kenneth B. Tagg, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 12, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524101.886</u>
County:	<u>Marshall</u>		Northing:	<u>4413564.819</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek-Grave Creek</u>			

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

*Please check the box that applies

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

FOR EXECUTION BY A NATURAL PERSON

Signature: Kenneth B. Tagg
Print Name: KENNETH B. TAGG
Date: 12-4-17

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

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JAN 5 2018

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

CONFIDENTIAL

MEMORANDUM FOR THE DIRECTOR, FBI

DATE: 10/15/50

RE: [Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]

CONFIDENTIAL
and to be kept confidential

[Illegible text]



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Jim Justice
Governor

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

November 16, 2017

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

Subject: DOH Permit for the Hicks Pad A Well Site, Marshall County
Hicks A U14H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2016-0504 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 17 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

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

Cc: Mandy Fordyce
Chevron Appalachia, LLC
CH, OM, D-6
File

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WV Department of
Environmental Protection

DEC 23 2011

OIL AND GAS ROAD STATEWIDE BONDING AGREEMENT

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

WITNESSETH:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Department of
Environmental Protection

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

WEST VIRGINIA DEPARTMENT OF
TRANSPORTATION,
DIVISION OF HIGHWAYS

Doreen Baria
Witness "Executive Secretary"

By: [Signature]
State Highway Engineer

CHEVRON APPALACHIA, LLC

[Signature]
Witness Michael A. Frazer
Supply Chain Manager

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

(To be executed in duplicate)

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

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

Section VI - Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	
State:	WV
County:	Marshall
API Number:	047-53-XXXX
Operator Name:	Chevron
Well Pad Name:	Hicks
Longitude:	39.872100
Latitude:	-80.711825
Long/Lat Projection:	NAD 83
Production Type:	
True Vertical Depth (TVD):	
Total Water Volume (gal) *:	116,001,000

Hydraulic Fracturing Fluid Additives:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Comments
Corrosion Inhibitor A264	Schlumberger	Corrosion Inhibitor	Methanol/Aliphatic Acids/Prop-2-yn-1-ol/Aliphatic Alcohols, ethoxylated #1	Mixture	
28% HCl Acid	Schlumberger	Used to open perms	Hydrochloric Acid	7647-01-0	
Breaker J134	Schlumberger	Gel Breaker	Hemicellulase Enzyme	9012-54-8	
Water Gelling Agent J580	Schlumberger	Water Viscosifier	Carbohydrate Polymer	Proprietary	
Friction Reducer J609	Schlumberger	Friction Reducer	Ammonium Sulfate	7783-23-2	
Iron Stabilizer LS8	Schlumberger	Iron Stabilizer	Sodium Erythorbate	6381-77-7	
EC6116A	Nalco	Bioocide	Dibromoacetone/tri(2,2-Dibromo-3-nitropropyl)amine/Polyethylene Glycol	Mixture	
EC6486A Scale Inhibitor	Nalco	Scale Inhibitor	Amine Triphosphate/Ethylene Glycol	Mixture	
NALCO EC6673W	Nalco	Iron Control	Ethylene Glycol	107-21-1	
6012-3050	Schlumberger	Proppant	Crystalline Silica	14808-60-7	
6012-4070	Schlumberger	Proppant	Crystalline Silica	14808-60-7	

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

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

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Office of Oil and Gas
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WV Department of
Environmental Protection



Know what's below.
Call before you dig.

HICKS WE

EROSION AND SEDIMENT

FORK RIDGE RO

CLAY DISTRICT, MARSHALL C

PREPARED

CONSULTANTS

BLUE MOUNTAIN GENERAL SURVEYING
11223 MAGNOLIA LINDEN HIGHWAY
EUREKA WEST VIRGINIA 26027
304.892.2926

CHEVRON APPRA

800 MOUNTAIN V

SMITHFIELD, I

HICKS WEIR DISTURBANCE AREA (A3)

TOTAL SITE	
ACCESS ROADS	7.7
WELL PAD	19.9
TOTAL AFFECTED AREA	27.4
TOTAL WOODED ACRES DISTURBED	0.1
IMPACTS TO ENVIRONMENT	
ACCESS ROADS	2.2
WELL PAD	0.0
TOTAL AFFECTED AREA	2.2
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO WILDLIFE	
ACCESS ROADS	0.1
WELL PAD	0.0
TOTAL AFFECTED AREA	0.1
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO WILDLIFE	
ACCESS ROADS	5.2
WELL PAD	19.9
TOTAL AFFECTED AREA	25.0
TOTAL WOODED ACRES DISTURBED	0.1

STREET OF PRESH LAKE AT TOP RIDGE ROAD
LATITUDE 39.97361 N LONGITUDE 80.70191 W

START OF ACCESS ROAD AT PRESH LAKE
LATITUDE 39.97271 N LONGITUDE 80.71005 W

WELL PAD MIT
LATITUDE 39.97368 N LONGITUDE 80.70200 W

WELL PAD USFS
LATITUDE 39.97379 N LONGITUDE 80.71211 W

BASED ON ROAD 80 WEST VIRGINIA STATE PLANE NORTH ZONE
U.S. FOOT

WATERSHED NAME 00 WINTER PLAIN UPPER OHIO SUBWELLS

RECEIVING STREAM RUSSELLS BLUE LAKE GRAVE CREEK
DISTANCE TO NEAREST USEFUL TIME STREAM = 1000 FT
NO ANTICIPATED WELLPAD IMPACTS



SITE LOCATION
USGS 7.5' TOPOGRAPHIC
MOUNDSVILLE & GLEN

- LEGEND**
- TC - TOP OF CURB
 - C - CENTER
 - TS - TOP OF WALL
 - EW - BOTTOM OF WALL
 - TL - TOP OF FLAKE
 - BE - BOTTOM OF SLURR
 - SW - SAND
 - SH - SANDSTONE
 - SH - SANDSTONE
 - TL - TOP OF SLURR
 - FL - FLOWLINE
 - VA - WATER VALVE
 - GV - GAS VALVE
 - PI - PIPERIGHT
 - LD - LADENOUT
 - SW - DRAINAGE
 - FW - FRESHWATER
 - MS - MANHOLE
 - CS - COOKSILL

EXISTING

L PAD

T CONTROL PLANS

D (C.R. 17)
COUNTY, WEST VIRGINIA

DR:

ACHIA, LLC
EW DRIVE
A 15478



MAP
QUADRANGLE MAP
ASTON, WV 1997

TERPOSED



NO	TITLE
CS 000	COVER SHEET
ES 050	EXISTING TOPOGRAPHIC PLAN
ES 100	OVERALL EROSION SEDIMENT CONTROL PLAN
ES 101	EROSION AND SEDIMENT CONTROL PLAN
ES 102	EROSION AND SEDIMENT CONTROL PLAN
ES 103	EROSION AND SEDIMENT CONTROL PLAN
ES 104	EROSION AND SEDIMENT CONTROL PLAN
ES 105	EROSION AND SEDIMENT CONTROL NOTES
ES 106	EROSION AND SEDIMENT CONTROL NOTES
ES 107	EROSION AND SEDIMENT CONTROL DETAILS
ES 108	EROSION AND SEDIMENT CONTROL DETAILS
ES 109	EROSION AND SEDIMENT CONTROL DETAILS
ES 110	EROSION AND SEDIMENT CONTROL DETAILS
ES 111	EROSION AND SEDIMENT CONTROL DETAILS
ES 112	EROSION AND SEDIMENT CONTROL DETAILS
ES 113	WELL PAD CROSS SECTION PLAN
ES 114	WELL PAD CROSS SECTION'S A AND E
ES 115	STOCKPILE CROSS SECTIONS C, D, E AND F
ES 116	ARBOR LAVE PLAN AND PROFILE
ES 117	ACCESS ROAD PLAN AND PROFILE
ES 118	ROAD CROSS SECTION
GE 500	GEOTECHNICAL SUBSURFACE SUMMARY
GE 501	GEOTECHNICAL SUBSURFACE SUMMARY
GE 502	GEOTECHNICAL SUBSURFACE SUMMARY
GE 503	GEOTECHNICAL CROSS SECTION
GE 504	GEOTECHNICAL TEST BORING INFORMATION
FC 500	RECLAMATION PLAN WITH AERIAL
FC 501	RECLAMATION PLAN

SHEET INDEX

Handwritten signature and date: 12/16/17

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JAN 5 2018

WV Department of Environmental Protection

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



NO	REVISION RECORD
1	REVISION PER WV DEP COMMENTS
2	
3	
4	
5	
6	
7	
8	
9	
10	

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

COVER SHEET
CS000
Drawing Scale AS SHOWN
Date Issued 10/13/2016
Index Number
Drawn By: jac
Checked By: EJK
Project Manager: TJP