

west virginia department of environmental protection

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

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

Thursday, January 10, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for GOODNIGHT 1402 N-3H

47-085-10375-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: GOODNIGHT 1402 N-3H

Farm Name: KENNETH PAUL GOODNIG

U.S. WELL NUMBER: 47-085-10375-00-00

Horizontal 6A New Drill Date Issued: 1/10/2019



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 dep.wv.gov

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101 DATE: November 26, 2018 ORDER NO.: 2018-W-11

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq*. to HG Energy II Appalachia, LLC (hereinafter "HG" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- 2. HG is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 5260 Dupont Road Parkersburg, WV 26101.
- On September 5, 2018 HG submitted a well work permit application identified as API# 47-085-10374. The proposed well is to be located on the Goodnight 1409 Pad in Murphy District of Ritchie County, West Virginia.
- 4. On September 5, 2018 HG requested a waiver for Wetlands JB and C outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-085-10374.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "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 Office of Oil and Gas 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 Office of Oil and Gas 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."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "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. The Office of Oil and Gas grants the request for a waiver for the Wetlands JB and C from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-085-10374. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Goodnight 1409 Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetlands JB and C shall have triple stacked twelve inch (12") compost filter sock to prevent sediment from reaching the wetland. This along with rip-rap level spreaders, temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 26th day of November, 2018.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

Bv.

JAMES A, MARTIN, CHIEF

Attachment / 150590 Estimated Gress Material Ratings (CY) DIRECT APPORT G. PROFESSION DAW DE PERMI -TOE BENDS (SEE JAVAN) 100 EROSCO CONTIC. BLAVET ACCESS TOVE/PAS DIVANCE Total Sin Balance COMPOST FLITTR SOCIAL OF WHITES. Stripped Topicol (II) vit of Citavibaries 12,500 DESCRIPTION OF THE PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY A Normalm Total Stackalle Cacatory Regulated (C.Y.) WATENEAU CHENCH PERS t. Marcul bulla certor est, gross est twork guarrilles only. PROPOSED THE BRILLING 2. Topoci est, volume transport it potent menute teco-APPROPRIATE LATE OF DELICANCE 3, Waleral bakerse and appropriate querifur found as estimate. ORDERACE BROKEN LIST and may not be representative at assignment as - pusting purposes to testic list A, Fetimalus going influel contractor pay an um-si DINING IVE THE LINGTON THUS GOVERNO EXITING INTERNEDITE CON DUT DESIRENCE TIME GIVES HOOK CONTOUR U Commodity 3 7/5 PROPERTY FIND TOUTE ATTRACTIONS COPPARATT KEINNETH PAUL DUTS OF BUT ACCOUNT MERCIE Care to a Cadectal Islate 4,946 Fed 26517 (4C) ed Torth Deepost Film Stock Length (LF and Assert Road Coverie Filter Scor Lorent LFT massd Gaz une Compași Filler Shok unigh (j. 14) omated Taval I mir of Ostilutionou (Azres) (Produce Well Pad & Septicity Limit of Disturbance (Note mated access Pond Limited Disturbance (Acres) 4.335 maned Tup Stin Pag & Read Livra of Sitturbaron TO THE WAY THAT HE TOUGHT WHAT TOPON THE TAIL IN THE T MATCHLINE INTERNET SCALE - FEE SITE DEVELOPMENT PLAN WITH EROSION AND SEDIMENTATION CONTROLS HG 1402 PAD & TAP SITE MURPHY DISTRICT RITCHIE COUNTY, WEST VIRGINIA HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA 184 00 18450 19400 19450 20400 20450 21400 Dial 811 or 800,245,4848 WEST VIRGINIA YOU DIG! Penn E&R PAGO7585-061 COORDINATES: UTM WITH NAD 83 DATUM, ZONE 17, U.S. FOOT, CENTRAL SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SAVEL SERVICE POR LOCK THIS, WANTANNO, AND PERLACTIONS RECEIVANT TO PARTIE 111 RYAN COURT, PITE 412-522 SHEET 2A

11/3/14	API Number:
Wetland and Perennial Stream Waiver	Request Operator's Well Number:
Well Operator: HG Energy II Ap	palachia, LLC
Well Number: Goodnight 1402	N-2H Well Pad Name: HG 1402 Pad
County, District, Quadrangle of Well Lo	Pitchic County Murphy District Smithyillo Quad

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

11/3/14						
Wetland	and	Perennial	Stream	Waiver	Req	uest

API Number:	
Operator's Well Number:	_

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The project lies south of SR47, (Staunton Turnpike). Wetlands for which the waiver is sought include the Wetland JB and Wetland C.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.
 - a. Include a No-Action Alternative as to show "the future without the project"
 - b. Location Alternatives must be shown
 - c. Must demonstrate why a one hundred foot buffer cannot be maintained
 - d. Describe how the proposed project is the least environmentally damaging practicable alternative
 - a. The No-Action Alternative for this site is the HG 1402 well pad not being constructed. This results in HG not utilizing acquired assets, and landowners not receiving anticipated compensation for leased land.
 - b. See attached Figure 1. Location to Northwest was evaluated, but was determined as having insufficient size and topography for required HG 1402 well pad sizing. This location would also involve excessive tree removal.
 - c. One hundred foot buffer to wetlands North and South of well pad cannot be maintained due to construction limits required to construct the HG 1402 well pad. The site is limited to the North and South by the extents of the existing wetlands. The site is limited to the East and West by topographic conditions that could result in slope stability issues during and after construction.
 - d. The proposed HG 1402 well pad is the least environmentally damaging practicable alternative as it does not disturb any riparian buffers, requires minimal tree removal, disturbs the minimal amount of wetlands required to properly construct the well pad, and avoids potentially hazardous slope stability issues.

11/3/14	
Wetland and Perennial Stream Waiv	ver Request

API Number:	_
Operator's Well Number:	1

3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

The contractor shall delineate sensitive areas, LOD, and shall install barriers where equipment may not be parked, stage, operated, or located for any purpose before construction activities commence. E&S controls will be installed as necessary during initial site access to minimize accelerated erosion and sedimentation. Perimeter controls (compost filter sock) shall be installed immediately after the site is accessed. Land clearing and grading shall commence only after all downslope E&S controls have been constructed and stabilized. E&S controls shall be maintained during all construction activities. Upon completion of construction, stabilization will be provided including seeding & mulching. Temporary controls shall be removed only once the site is stabilized. A 2' berm will be constructed around the pad to capture any discharges. A french drain will be installed on the perimeter of the pad to capture any runoff from the well pad surface. The french drain consists of 6" perforated HDPE pipe, with an impermeable liner surrounding the backfill. The french drain will flow to two catch basins located on the pad. The basins outlet through HDPE pipes with gate valves installed. The valves shall be closed during any drilling activity or operations, and no discharge from the pad shall occur during drilling activities.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
 - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

See attached HG 1402 Well Pad Drawing Set. Orange plastic safety fence shall be installed around extents of wetlands where possible. Efforts shall be made to limit the amount of earth disturbance adjacent to and within wetlands. All E&S controls shall be inspected on a regular basis. Damaged or improperly functioning E&S controls shall be replaced immediately.

01/11/2019



OPERATOR:_	HG Energy II Appalachia, LLC	WELL NO:
PAD NAME:_	Goodnight 1402	
REVIEWED E	BY: Diane White	SIGNATURE:

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well	Restri	ictions
		At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
		DEP Waiver and Permit Conditions
	'	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
		DEP Waiver and Permit Conditions
	V	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
		DEP Waiver and Permit Conditions
	•	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
		Surface Owner Waiver and Recorded with County Clerk, OR
		DEP Variance and Permit Conditions
	V	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
		Surface Owner Waiver and Recorded with County Clerk, OR
		DEP Variance and Permit Conditions
	'	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
		Surface Owner Waiver and Recorded with County Clerk, OR
		DEP Variance and Permit Conditions

API Number: 85 7/037/5/2019

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 85-06312019

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, cessation of drilling, 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

October 9, 2018

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

RE: Application for Deep Well Permit – API #47-085-10375

COMPANY: HG Energy II Appalachia, LLC

FARM: HG Energy II Appalachia, LLC Goodnight 1402 N-3H

COUNTY: Ritchie DISTRICT: Murphy QUAD: Smithville

The deep well review of the application for the above company is <u>Approved to drill to Trenton for Marcellus completion.</u>

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? NA
- 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,

Susan Rose Administrator

OPERATOR WELL NO. 1402 N-3H

Well Pad Name: Goodnight 1402

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

1) Well Operator: HG Energy	y II Appalachia,	494519932	Ritchie	Murphy	Smithville,WV 7.5
1) went operator.		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 14	402 N-3H	Well Pa	ad Name: Go	odnight 1402	2
3) Farm Name/Surface Owner:	Kenneth Paul Go	odnight Public Ro	oad Access: S	R 42	
4) Elevation, current ground:	755' E	Elevation, propose	d post-constru	ction: 739'	
5) Well Type (a) Gas X Other	Oil _	Un-	derground Sto	rage	- 1
(b)If Gas Sh	nallow	Deep	Х		Mishaul 2011
Ho	orizontal X				Warren 18
6) Existing Pad: Yes or No No	lo				11/8/
 Proposed Target Formation (5796', 55' Thick, 4204 psi 	(s), Depth(s), Anti	cipated Thickness	and Expected	Pressure(s):	
8) Proposed Total Vertical Dep	oth: Pilot hole @	TVD 10550', then p	olug back to M	arcellus, TVD	5830' @ landing point
9) Formation at Total Vertical	-	pilot hole, plug b			
10) Proposed Total Measured I	Depth: 19524' (Marcellus)			
11) Proposed Horizontal Leg L	Length: 13196' (Marcellus)			
12) Approximate Fresh Water	Strata Depths:	68', 83', 108',	747'		
13) Method to Determine Fresh		Historical data w	ithin close pr	oximity to th	e well site
14) Approximate Saltwater De					
15) Approximate Coal Seam D	epths: NA				
16) Approximate Depth to Pos		nine, karst, other):	None antici	pated	
17) Does Proposed well location directly overlying or adjacent t	on contain coal se	ams		No X	
(a) If Yes, provide Mine Info	: Name:				
(-) brough !!!!!!	Depth:				RECEIVED
	Seam:			C	Office of Oil and Gas
	Owner:				NOV 1 1 2018
					A/A/ Department of

4708510375

WV Department of **Environmental Protection**

OPERATOR WELL NO. 1402 N-3H
Well Pad Name: Goodnight 1402

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94	120'	120'	Drilled In
Fresh Water	13 3/8"	New	J-55	54.5	800'	800'	CTS
Coal							
Intermediate	9 5/8"	New	J-55	40	2650'	2650'	CTS
Production	5 1/2"	New	P-110	23	19524'	19524'	CTS
Tubing							
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	20"	0.438	2110		Type 1, Class A	
Fresh Water	13 3/8"	17.5"	0.380	2730		Type 1, Class A	40% excess, yield = 1.20, CTS
Coal							
Intermediate	9 5/8"	12 1/4"	0.395	3950		Type 1, Class A	40% excess, yield = 1.20,CTS
Production	5 1/2"	8 1/2"	0.415	14520	11500	Type 1, Class A	20% excess, lead yield = 1.19, CTS
Tubing							
Liners							

PACKERS

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OPERATOR WELL NO. 1402 N-3H Well Pad Name: Goodnight 1402

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

Drill vertically through the Marcellus and into the Trenton (100' or less) at an estimated total vertical depth of approximately 10,550 feet. Run open hole logging tools. Plug back with cement to kick off point. Wait on cement. Kick off / drill off of cement, plug and drill curve. Drill horizontal leg - stimulate and produce the Marcellus Formation. Should an unanticipated void be encountered in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

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

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water and chemicals. See attached list. Maximum pressure not to exceed 11,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.348

22) Area to be disturbed for well pad only, less access road (acres): 8.26

23) Describe centralizer placement for each casing string:

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

150 Sppg PNE-1 + 3% baroc CaCl 40% Excess/reid=1.20 / CTS
ng - Tuset 15.4 ppg PNE-1 + 25% baroc CaCl 40% Excess/reid=1.20 / CTS*
ng - Tuset 15.4 ppg PNE-1 + 25% baroc CaCl 40% Excess / Tiel 15.9 ppg PNE-1 + 2.5% baroc CaCl 2ero% Excess, CTS CTS*

- Tuset 1-15.9 pp POZ-PNE-1 + 0.3% baroc R3 + 14 baroc EC1 + 0.75 galtis: FP191 + 0.3% baroc MPA17020% Exc

25) Proposed borehole conditioning procedures:

m of 1 hoke volume, plus 30 bbts of 6% benfonte Gel/SC# of poly lisks, then clear easing w/ Fresh Water prior to pumping nimum of 1 hole volume, plus 30 bbts of 6% benfontlis Gel/SC# of poly take, then clear casing w/ Fresh Water prior to pum the state of the second s

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WV Department of Environmental Protection

*Note: Attach additional sheets as needed.



Goodnight 1402 N-3H Marcellus Shale Horizontal Ritchie County, WV

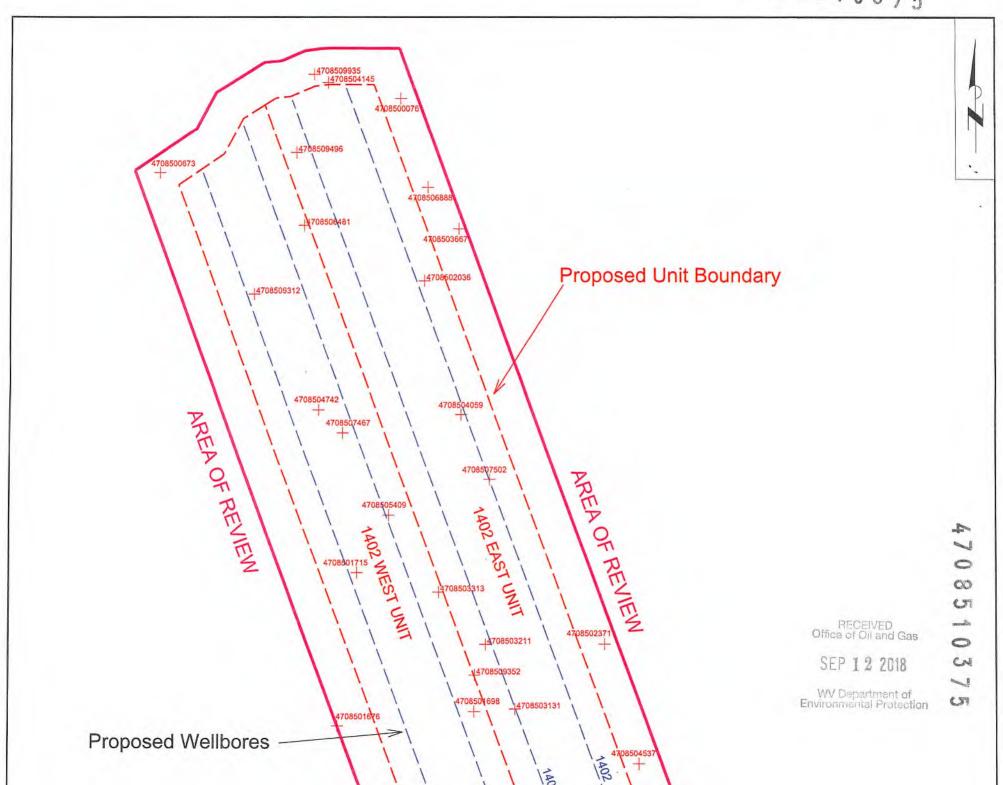
A	FROE FIONE TO DE GIMEG	, Kun Open Ho cement		ogs, then plug back with		Goodnight	1402 N-3F	SHL		14188206.86N 1615975.34E		
## WELL BORREAM MOLE CASING GEOLOGY TOP BASE SMD CESSENT CENTRALEZERS COMMINIS COMMINIS	Ground Elevation 738'					Goodnigh	t 1402 N-3	H LP		14188840.95N 1616415E		
20	Azm		340	.016°		Goodnight	1402 N-3h	BHL		14201237.27N 1611907.14E		
X X X X X X X X X X	WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
X X X X X X X X X X											Conductor casing # 0.438"	
17.5 5.500 Field 17.5	x x	20"		Conductor	0	120	AIR		N/A		thickness	
Big Lime	×	17.5"		Surface Casing	0	800	AIR	40% Excess	collars) on first 2 joints then every third joint to	& fill w/ Fresh Water. Circulate a minimum of 1 hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water		
New York	X X	12.25"		Big Lime Big Injun Berea Gordon	1816 2174 2566	1830 2199 2590	AIR	CaCl 40% Excess / <u>Tall</u> : 15.9 ppg PNE-1 + 2.5% bwoc CaCl	collars) on first 12 joints, then every third joint to	& fill w/ Fresh Water. Circulate a minimum of 1 hote volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then cleer casing w/ Frash Water		
X X X S - S - Pliot S - S - S - S - S - S - S - S - S - S	x x	8.5" Vertical		Warren Riley Benson	3266 4212 4512	4541	9.0ppg		every 5 joints from the top of the curve to			
Marcellus 5796 galsk F7131- 80 woc EC1 + 0.78 20 20 20 20 20 20 20 2	×××		23# P-110 HC	Elk Hamilton Cashaqua Middlesex	5154 5328 5480 5614			<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%				
Redeferurg 6166	×			Marcellus TMD / TVD Onondaga Huntersville	5796 19524 5868 5896	5830		gal/sk FP13L + 0.3% bwoc MPA170 <u>Tail</u> : 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yleid=1.19	every 3 joints from the	allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.		
Packer Shell 8179	x x	8.5" Pilot		Bass Island Dolomite Satina Lockport	6416 6526 7606		11.5ppg- 12.5ppg SOBM	ств	top of the curve.	RECEIVED Office of Oil and Gas		
X X X X X X X X X X X X X X X X X X X				Clinton Medina Reedsville Utica / Pt. Pleasant	8216 8346 9196 10264					WV Department of	11/8	
TO A J SEQUENCE	x x					Pilot Hole TD: 10,550*						
MD 5-1/2" 23# P-110 HC CDC HTQ +/-13196 11 Lateral +/-19524' MD	LP@	830' TVD / 6328'	Charles and the second and the landscape laboration	X	8.5" Hole -		X	X	X) X +/-13196' ft Lateral	TD @ +/-5830' TVD	

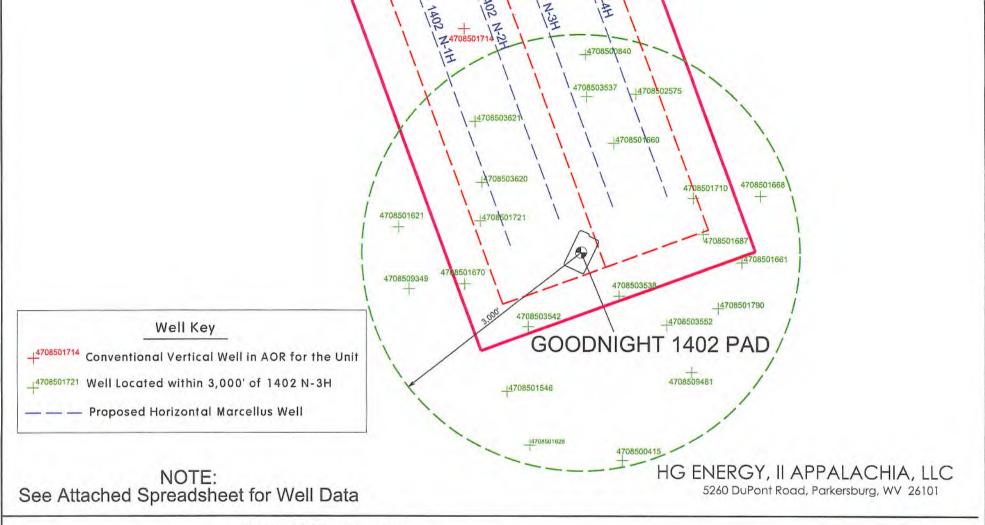
85- 16375 HG

Goodnight 1402 Well Pad (N-1H, N-2H, N-3H, N-4H) <u>Cement Additives</u>

4708310375

laterial Name	Material Type	Material Description	CAS#		
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide Magnesium oxide	1-5	1305-78-8 1309-48-4
		strength properties.	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
mium NE-1	Portland Cement				
		Commonly called gel, it is	Ingredient name	%	CAS number
		a clay material used as a	bentonite	90 - 100	1302-78-9
		cement extender and to	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		control excessive free water.			
tonite	Extender	water.			
		· Octobració Maistra			
		A powdered, flaked or pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
		of strength development			
ium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Constitution of the Consti	la _t	CAS www.han
		cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
Flake	Lost Circulation	A NEED AN DESCRIPTION OF STREET			
		FP-13L is a clear liquid			
		organic phosphate antifoaming agent used in			
		cementing operations. It	Ingredient name Office of Oil and Gas	%	CAS number
		is very effective	Tributyl phosphate Office of Cit and Gas	90 - 100	126-73-8
		minimizing air			
		entrapment and	SEP 1 2 2018		
		preventing foaming			
		tendencies of latex	W// Devartment of		
21	Coom Decreates	systems.	WV Department of Environmental Protection		
L3L	Foam Preventer				
		Annual view or the same	Ingredient name	%	CAS number
wilload Co	Deterden	Used to retard cement	Sucrose	90 - 100	57-50-1
inulated Sugar	Retarder	returns at surface. A proprietary product			
		that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.	CANA CARROLL MANAGEMENT	7100	
1					
		Multi-purpose polymer			
		additive used to control free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
A-170	Gas Migration	migration.		-	
57,736		100000000			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	Ingredient name	%	CAS number
		used to create	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		lightweight cement slurries used as either a	Calcium oxide	1 - 5	1305-78-8
		filler slurry or a sulfate			
		resistant completion			
		cement.			
(Fly Ash)	Base				
		Laboratory Control			
		A low temperature			
			Ingredient name	%	CAS number
		retarder used in a wide			
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		range of slurry formulations to extend			Trade secret.
	Retarder	range of slurry			Trade secret.
	Retarder	range of slurry formulations to extend	Organic acid salt		Trade secret.
	Retarder	range of slurry formulations to extend	Organic acid salt Ingredient name	40 - 50	Trade secret.
	Retarder	range of slurry formulations to extend	Organic acid salt Ingredient name 2-Butoxyethanol	40 - 50 % 20 - 30	CAS number 111-76-2
	Retarder	range of slurry formulations to extend the slurry thickening time.	Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant	% 20 - 30 10 - 20	CAS number 111-76-2 Trade secret.
	Retarder	range of slurry formulations to extend	Organic acid salt Ingredient name 2-Butoxyethanol	40 - 50 % 20 - 30	CAS number 111-76-2





Area of Review for:

GOODNIGHT 1402 PAD

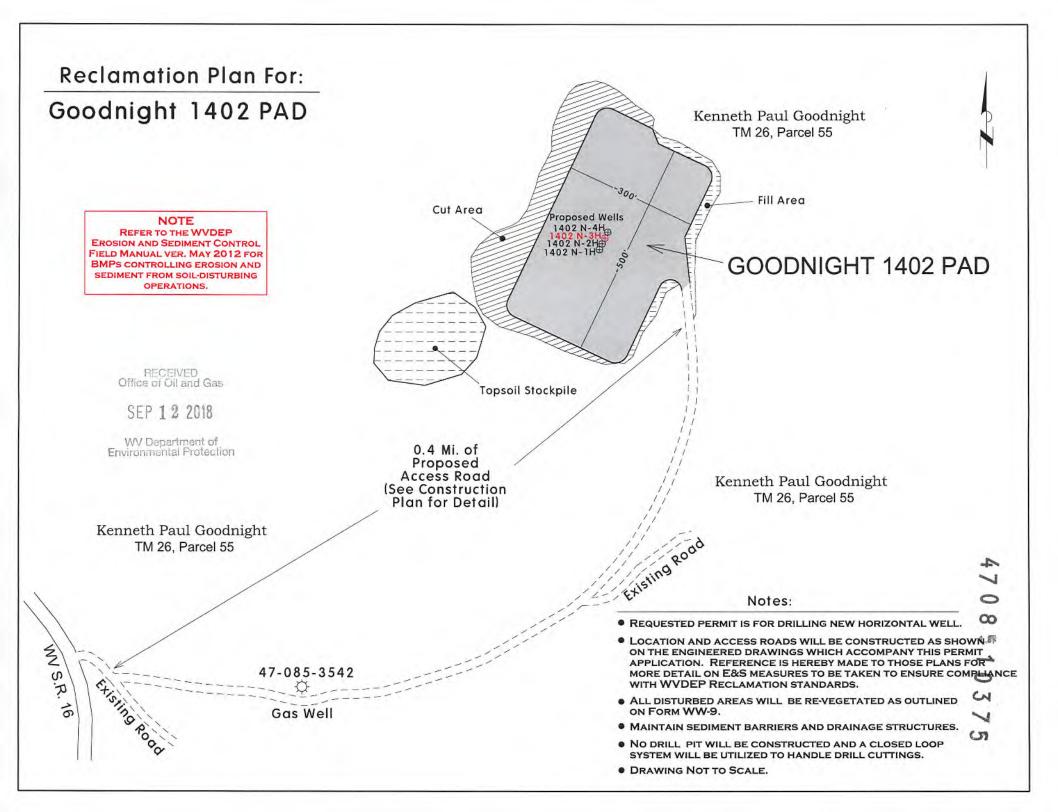
Proposed 1402 N-1H Proposed 1402 N-2H Proposed 1402 N-3H (Utica Test Well) Proposed 1402 N-4H

Murphy District, Ritchie County, W.Va.

DATA SOURCE WVGES Data Set - 2017; WVDEP Website







WW-9 (4/16)

My commission expires

4708210375 API Number 47 -

Operator's Well No. Goodnight 1402 N-3H

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

RECEIVED
Office of Oil and Gas

SEP 1 2 2018

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Environme	partment of ntal Protection
Operator Name HG Energy II Appalachia, LLC OP Code 49450 1907	
Watershed (HUC 10) South Fork Hughes River Quadrangle Smithville, 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: NA	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	1 Co
Proposed Disposal Method For Treated Pit Wastes:	MAG 18
Land Application	8-2-
Underground Injection (UIC Permit Number	
Reuse (at API Number_TBD - At next anticipated well Off Site Disposal (Supply form WW-9 for disposal location)	,
Other (Explain	
One (Diplom	
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air, Freshwater and SOBM	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	_
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents	_
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number? See Attached	_
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disci where it was properly disposed.	lose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other agreement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted application form and all attachments thereto and that, based on my inquiry of those individuals immediately respon obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are signed that the information including the possibility of fine or imprisonment.	pplicable on this sible for
Company Official Signature Diana White	-
Company Official (Typed Name) Diane White	
Company Official Title Agent	-
Notary Public Notary Public	OFFICIAL SEAL OTAMY PUBLIC: STATE OF WEST WIRGINI MARK, J SCHALL H O E BROY, L C PO Box 5519, Vierne, WY 28105 MY Commission Expires November 2, 2021

Form WW-9

4708 100 A 1

roposed Revegetation Treatm	nent: Acres Disturbed 15.348	Prevegetation ph	I
Lime	3 Tons/acre or to correct to pH	6.5	
Fertilizer type10-	20-20		
Fertilizer amount	500 _{lbs}	/acre	
Mulch_ Hay	2 Tons/ac	cre	
	Seed	Mixtures	
Ter	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application	oit will be land applied, include dir on area.	ation (unless engineered plans inclunensions (L x W x D) of the pit, and	ding this info have b
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involved.	and proposed area for land application area. ved 7.5' topographic sheet.	ation (unless engineered plans inclu mensions (L x W x D) of the pit, and	a dimensions (L X w
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Pre-seed/ Comments:	and proposed area for land application will be land applied, include direct on area. Wed 7.5' topographic sheet. Mall May and May area.	ation (unless engineered plans inclumensions (L x W x D) of the pit, and	a difficusions (L x vi
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Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Pre-seed/ Comments:	and proposed area for land application will be land applied, include direct area. Wed 7.5' topographic sheet. Mail Mail Mail Mail Mail Mail Mail Mail	ation (unless engineered plans inclumensions (L x W x D) of the pit, and	a dimensions (L X w

SEP 1 2 2018

WV Department of Environmental Protection

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1575 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

Waste Management 200 Rangos Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19 Cochranton, PA 16314 814-425-7773

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

Westmoreland Waste, LLC Permit # 100277 111 Conner Lane Belie Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R30-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071 233 Max Lane Yukon, PA 25968 724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 01/11/2019

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WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

01/11/2019

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961 RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 330-892-0164

Nabors Completion & Production Services Co. PO Box 975682 Dallas, TX 75397-5682

Select Energy Services, LLC PO Box 203997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Clairsville, OH 43950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15301

Disposal Locations:

lemorial Highway 1. Tyler Court
26542 Carlisie, PA 1

Solidification
Waste Management, Arden Landfill Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-225-1589

Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20753
6065 Arrel-Smith Road
Lowelville, OH 44436
330-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Oilfield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, inc. 1380 Rte. 286 Hwy. E, Suite 303 Indiana, PA 15701

Solo Construction P.O. Box 544 St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisle, PA 17015

Myers Well Service, ____ 2001 Ballpark Court Export, PA 15632

Burns Drilling & Excavating 618 Crabappie Road P.O. Box Wind Ridge, PA 15380

Nichlos 1-A (SWIW #13) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 713-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 512-478-6545

Adams #3 (Buckeye Brine, LLC) Permit #34-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Oilfield Services, Inc. 2939 Hubbard Road Youngstown, PH 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

OH UIC #1 B4kg/e OIC Bar besville 0 & 3. 7 5 CNX Gas Com. Jany, LLC 1000 Consol Energy Drive

Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

01/11/2019

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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WV Department of Environmental Protection

HG Energy II Appalachia, LLC

Site Safety Plan

Goodnight 1402 Well Pad 461 Big Springs Road Smithville, Ritchie County, WV

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SEP 1 2 2018

August 2018: Version 1

WV Department of Environmental Protection

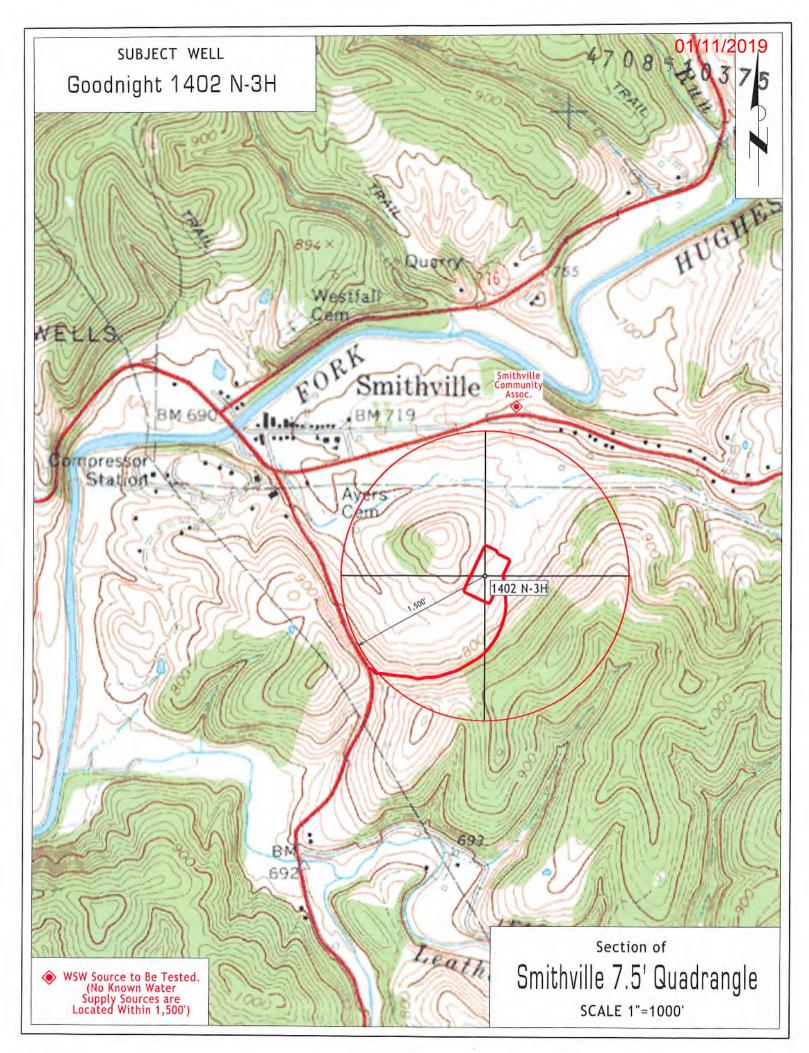
For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

HG Energy II Appalachia, LLC.

5260 Dupont Road

Parkersburg, WV 26101

Michael Doff



BHL is located on topo map 6.916 feet south of Latitude: 39 07 30 SHL is located on topo map 4,771 feet south of Latitude: 39 05 00 TO LENGTH OF LATERAL SEE PAGE 2 FOR PLAT 2. 2. SURFACE OWNER 07-26/55 KENNETH PAUL GOODNIGHT AYERS CEMETERY 07-26/55.1 07-26/21 DAVID F. CUNNGHAM 07-26/11.1 07-26/11 J. D. CUNNINGHAM JENNINGS DARWIN CUNNINGHAM II 99 07-26/6 ALFAB INCORPORATED 07-26/7 07-18/30 ALFAB INCORPORATED 01/11/20 C. M. ELLIOTT HRS (CHAS. M.) C/O MARY CARPENTER SURFACE HOLE LOCATION (SHL) C. W. ELLIOTT HRS C/O MARY C. OLDAKER LONNIE W. ELLIOTT HRS C/O JANET SUE ELLIOTT UTM 17-NAD83(M) N:4324574.10 E:492550.27 map LUVINA J. ELLIOTT
DAVID P., JR. & JANET SUE ELLIOTT UTM 17-NAD83(FT) N:14188206.86 E:1615975.34 JOHN J., II & ELLYSON MARY OLDAKER C/O MARY C. OLDAKER ELZONA PROST HRS LAT/LON DATUM-NAD83 LAT:39.070234 KENNETH H. PARKS, WILLIAM TYRAN & MARY PARKS C/O BARBARA J. BARKER AND ROBERT H. PARKS LYDIA M. PARKS EST & F. EUSTACE C/O LYDIA ENOS feet HAUGHT FARM LLC APPROX. LANDING POINT UTM 17-NADB3(M) N:4324767.37 E:492684.28 UTM 17-NAD83(FT) N:14188840.95 E:1616415.00 CLIFFORD WOLFE WILLIAM B. ELLIOTT TIMOTHY AMOS CLAYTON & JOE L. SWEETCRAFT, 99 CATHY ANN TRUESDELL Longitude: ERNEST J. DYE, NORMA J. COTRILL & LOIS C. PORTER EDWARD LEE PORTER JR., EDWIN LEE PORTER SR., LAT/LON DATUM-NAD83 LAT:39.071977 LON:-81,084571 GARY MICHAEL & STEVEN TODD PORTER JUDY L. MILLER MARY LOU NATH EDDIE C. WATSON BOTTOM HOLE LOCATION (BHL) IRENA W. CONLEY UTM 17-NAD83(M) N:4328545.78 E:491310.28 UTM 17-NAD83(FT) N:14201237.27 EDNA HARDMAN 05 ERNEST L. HARTSHORN MARY ELIZABETH HILTON CARPENTER 00 E:1611907.14 07-18/19 HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP 07-18/18
HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP 07-18/15 LAT/LON DATUM-NAD83 LAT:39.106012 10 KEVIN SCOTT SIMMONS & LISA MICHELLE HONAKER 07-18/8 HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP 07-18/7 DIST-TM/PAR 07-26/55 PARKS/ WILSON HAUGHT/EVANS 07-18/30 MARY E. SCOTT
A. ELLIOTT
R. JOHNSON
HEDGE 07-18/18 07-18/15 **Blue Mountain** CENSES TARILLE 11023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486 FILE #: I,THE UNDERSIGNED, HEREBY CERTIFY THAT THIS GOODNIGHT 1402 N-3H PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY DRAWING #: GOODNIGHT 1402 N-3H LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY SCALE: 1" = 2000THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. PLACE SEAL HERE B FOT VIRGINITY MINIMUM DEGREE OF ACCURACY: Signed: PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.81' R.P.E .: L.L.S.: P.S. No. 2000 THOMAS 1498.81 (+) DENOTES LOCATION OF WELL ON DATE: UNITED STATES TOPOGRAPHIC MAPS AUGUST 14, 2018 WVDEP OPERATOR'S WELL#: GOODNIGHT 1402 N-3H OFFICE OF OIL & GAS 601 57TH STREET API WELL #: 10375 Hlor 47 85 CHARLESTON, WV 25304 STATE COUNTY PERMIT Well Type: Oil Waste Disposal X Production X Deep X Gas Liquid Injection Storage Shallow SOUTH FORK HUGHES RIVER 739'± ELEVATION:__ COUNTY/DISTRICT: RITCHIE / MURPHY SMITHVILLE, WV 7.5' QUADRANGLE: KENNETH PAUL GOODNIGHT SURFACE OWNER: ACREAGE: 239.924± OIL & GAS ROYALTY OWNER: M. A. AYERS ACREAGE: 1032.649± DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): AND DRILL HORIZONTAL MARCELLUS SHALE WELL UTICA TVD: 10,750'±
TVD: 5,830'±
TMD: 19,524'± TARGET FORMATION: UTICA TEST/MARCELLUS SHALE PRODUCTION ESTIMATED DEPTH:

DESIGNATED AGENT

5260 DUPONT ROAD

PARKERSBURG

Address

City

DIANE C. WHITE

Zip Code 26101

State WV

HG ENERGY II APPALACHIA, LLC

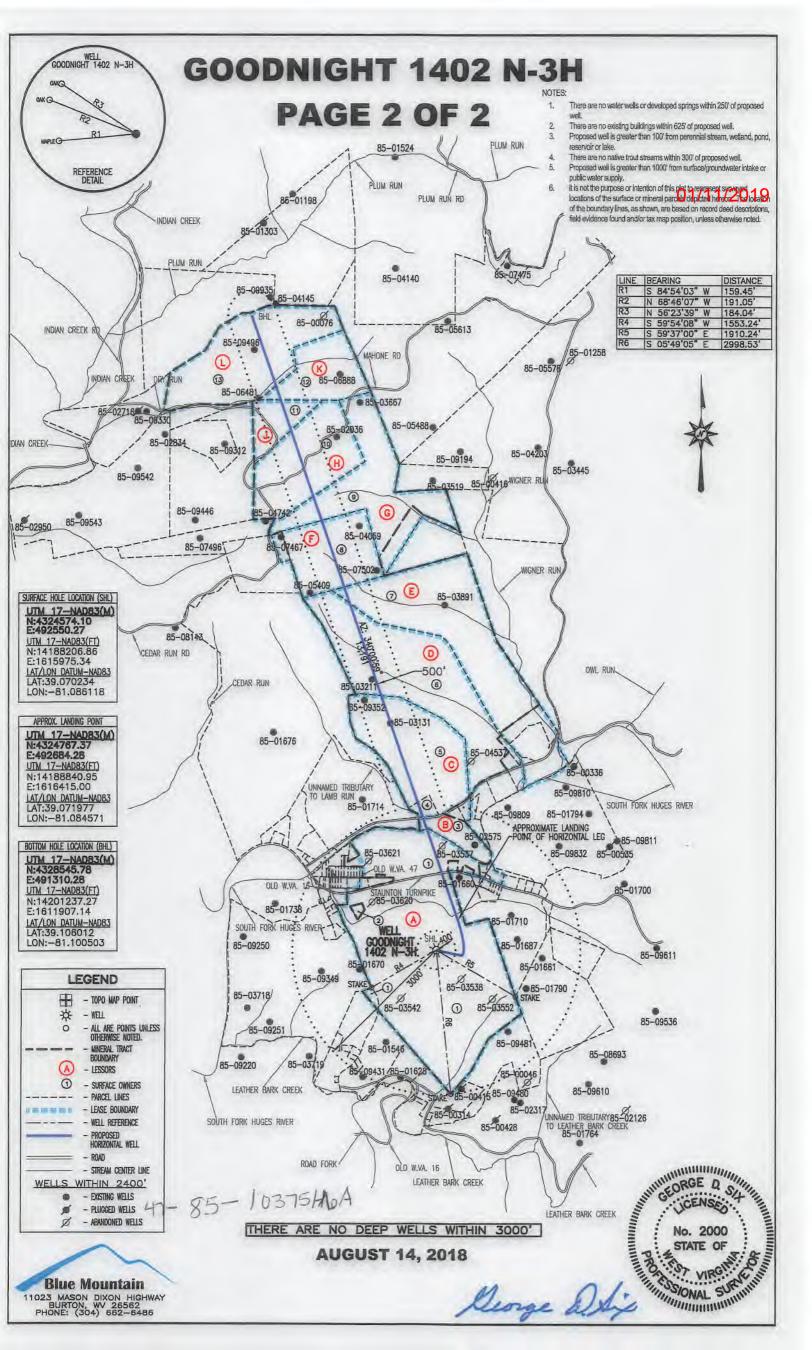
Zip Code 26101

State WV

WELL OPERATOR

City PARKERSBURG

5260 DUPONT ROAD



WW-6A1 (3/13)

Operator's Well No. ______47

4708510375

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

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

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

Lease Name or

Number Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached Sheet

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WV Department of Environmental Protection

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

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

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

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

Well Operator:	HG Energy II Appalachia, LLC				
By:	Diane White	Diane	white		
Its:	Agent				

Office of 91/3nd 62019

47 0 8 SEP 102 3018 5

HG Energy II Appalachia, LLC Goodnight 1402 N-3H Lease Chains

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Environmental	Prot	ection
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		Goodnight 1402 N-	3H Lease Chains			Environmental Protect
HG Plat Number	MPID	Original Lessor	Original Lessee	Royalty	Book	Page
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	M. A. Ayers and Mary		Not less		
A) 1	55.8	Ayers, his wife	W. J. Burke	than 1/8	LB 21	174
. •	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Mars Oil and Gas				
	55.8	Company	Mountain State Gas Company		LB 25	258
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Mountain State Gas				
	55.8	Company	Hope Natural Gas Company		LB 30	423
	7.06 55 7.52 244 7.52 242 7.06	·	•			
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Hope Construction and	South Penn Natural Gas			
	55.8	Refining Company	Company		LB 74	263
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	South Penn Natural Gas				1
	55.8	Company	South Penn Oil Company		DB 138	575
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Hope Natural Gas				
	55.8	Company	Consolidated Gas Supply Corp.		DB 151	436
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-					
	55.8	Pennzoil Company	Pennzoil United, Inc.		DB 159	453
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Consolidated Gas Supply	Consolidated Gas			
	55.8	Corp.	Transmissions Corp		LB 169	756
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-					
	55.8	Pennzoil Company	Pennzoil Products Company		LB 193	18
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	•				
	55.8	Pennzoil Company	Pennzoil Products Company		DB 223	696
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Pennzoil Products	Pennzoil Exploration and			
	55.8	Company	Production Company		DB 267	630
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Devon Energy	,			
	55.8	Production	East Resources, Inc.		DB 277	96
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Troduction	aust nesources, mer			
	55.8	East Resources, Inc.	HG Energy, LLC		LB 252	830
	33.0	,	37,			
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Dominion Exploration				
	55.8	and Production, In.	Dominion Transmission, Inc		LB 251	621
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Dominion	Consol Energy Holdings LLC			
	55.8	Transmission, Inc	XVI		LB 251	648
	33.0					
		Dominion Resources,				
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	Inc., Dominion				
	55.8	Transmission, Inc., and				
		Consol Energy				
		Holdings XVI	CNX Gas Company		LB 253	841
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-					
	55.8	CNX Gas Company	Noble Energy, Inc.		LB 254	811
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	,	<u> </u>			
	55.8	CNX Gas Company	Noble Energy, Inc.		LB 304	287
	7-26-55, 7-53-24.1, 7-53-24.2, 7-26-	• •	3. ,			
	55.8	Noble Energy, Inc.	HG Energy II Appalachia, LLC		LB 309	251
						
,		Forest Wilson and Bessie		Not less		
B) 🗸	7-26-21	Irene Wilson, his wife	Glenn L. Haught and Sons	than 1/8	LB 96	3
•		Glenn L. Haught and				
	7-26-21	Sons	L. E. Haught		LB 102	194
		Glenn L. Haught and				
	7-26-21	Sons	M. F. Frederick		LB 118	240
		Glenn L. Haught and	Eldon J. Haught and/or Mary			
	7-26-21	Sons	Haught, H/W		LB 103	297
		Glenn L. Haught and	Glenn L. Haught and Bernice M.		ID 461	24
	7-26-21	Sons	Haught		LB 104	24
		Warren R. Haught and	740.0		10 177	500
		Lenna G. Haught	710 Corporation		LB 176	609
	7-26-21					
		Haught Oil Producing	710 Caman #		LD 400	701
	7-26-21	Haught Oil Producing Corporation	710 Corporation		LB 180	791
	7-26-21 7-26-21	Haught Oil Producing Corporation 710 Corporation	Lenna G. Haught		LB 211	514
	7-26-21	Haught Oil Producing Corporation	· ·			1

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7-26-21	Hughes Resources, Inc.	HAH Petroleum, Inc.	LB 223	332
7-26-21	Ira M. Haught	Whittle Corporation	DB 276	283
7-26-21	710 Corporation	Whittle Corp.	LB 234	182
7-26-21	Lenna G. Haught	710 Corporation	LB 234	600
7-26-21	Warren R. Haught	710 Corporation	LB 234	601
7-26-21	lda Mae Parks	Whittle Corporation	LB 237	843
	Karen I. Harris and			
7-26-21	Kenton E. Harris	Whittle Corporation	LB 237	844
	Pamela J. Stanley and			
7-26-21	Gary R. Stanley	Whittle Corporation	LB 237	845
7-26-21	Pamela J. Stanley	Whittle Corporation	LB 239	351
	Oma Jean Lynch and			
7-26-21	Richard C. Lynch	Whittle Corporation	LB 239	352
7-26-21	Karen I Harris	Whittle Corporation	LB 239	408
7-26-21	lda Mae Haught Parks	Whittle Corporation	LB 239	670
7-26-21	Eldon J. Haught	Petroedge Resources, LLC	LB 239	925
	Quest Eastern			
	Resources, LLC			
	(Petroedge Resources			
7-26-21	LLC.)	Quest Cherokee, LLC	LB 246	1062
	Stephen J. Monarty,			
	solely in his capacity as			
	Chapter 11 Trustee for			
7-26-21	PostRock Energy Corp.	UIV, LLC	LB 297	556
7-26-21	UIV, LLC	Alpha Helix Energy, LLC	LB 297	587
7-26-21	710 Corporation	Whittle Corporation	LB 308	27
	Whittle Corp., Montani			:
	Energy, LLC, Haught			
	Energy Corp., and Alpha			
7-26-21	Helix Energy, LLC	Burning Springs Energy, LLC	LB 308	796
	Burning Springs Energy,			
7-26-21	LLC	HG Energy II Appalachia, LLC	INS#	201800006269

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D)	7-26-6, 7-26-6.2, 7-26-6.3	Pansy Lemon Evans & Clarence S. Evans, her husband	Glenn L., Warren R. & Eldon J. Haught, DBA Glenn L. Haught & Sons, Smithville, W.Va.	Not less than 1/8	LB 108	232		
	1-20-11, 1-20-11.1, 1-20-10, 1-20-19	Pansy S. Lemon now	The Energy is Apparacilla, LLC		(14.51)	2010000	,002U3	
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Whittle Corp., Montani Energy, LLC, Haught Energy Corp., and Alpha Helix Energy, LLC Burning Springs Energy, LLC	Burning Springs Energy, LLC HG Energy II Appalachia, LLC		LB 308	796 2018000	006269	
2	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Burdett Sperry Roming Anne R. Decker	Alpha Helix Energy, LLC Alpha Helix Energy, LLC		LB 312 LB 312	198		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	UIV, LLC 710 Corporation	Alpha Helix Energy, LLC Whittle Corporation		LB 297 LB 308	587 27 195	J	
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Stephen J. Moriarty, solely in his capacity as Chapter 11 Trustee for PostRock Energy Corp.	UIV, LLC		LB 297	5S6 S87	RECEIVED Office of Oil and	SEP 12
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Quest Eastern Resources, LLC (Petroedge Resources LLC.)	Quest Cherokee, LLC		LB 246	1062	ED Ind Gas	2018
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Ida Mae Haught Parks Eldon J. Haught	Whittle Corporation Petroedge Resources, LLC		LB 239 LB 239	670 925		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Oma Jean Lynch and Richard C. Lynch Karen I Harris	Whittle Corporation Whittle Corporation		LB 239 LB 239	352 408		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Warren R. Haught Pamela J. Stanley	710 Corporation Whittle Corporation		LB 234 LB 239	601 351		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Ida Mae Parks Lenna G. Haught	Whittle Corporation 710 Corporation		LB 237 LB 234	843 600		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Kenton E. Harris Pamela J. Stanley and Gary R. Stanley	Whittle Corporation Whittle Corporation		LB 237	845		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Ira M. Haught Karen I. Harris and	Whittle Corporation		DB 276 LB 237	283 844		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Hughes Resources, Inc.	HAH Petroleum, Inc.		LB 223	332		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Lenna G. Haught HAH Petroleum, Inc.	HAH Petroleum, Inc. Hughes Resources, Inc.		LB 212 LB 222	88 15		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	710 Corporation	Lenna G. Haught		LB 211	514		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Lenna G. Haught Haught Oil Producing Corporation	710 Corporation 710 Corporation		LB 176 LB 180	609 791		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Montani Iron & Supply Co. Warren R. Haught and	Warren R. Haught		LB 145	323		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Sydney Renehan Misco Industries, FKA	Glenn L. Haught and/or Bernice Haught		LB 109	296		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Glenn L. Haught	Glenn L. Haught and/or Bernice Haught		LB 104	31		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Glenn L. Haught LW Bodge	Paul McCoy Eldon J. Haught and/or Mary Haught, H/W		LB 123 LB 103	465 293		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Glenn L. Haught	Paul Bertram		LB 91	397		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Glenn L. Haught	LW Bodge		LB 86	517		
	7-26-11, 7-26-11.1, 7-26-18, 7-26-19 7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Glenn L. Haught Glenn L. Haught	Sidney Renehan Margaret Sperry		LB 85 LB 85	170		
C)	7-26-11, 7-26-11.1, 7-26-18, 7-26-19	Wilson, his wife	Glenn L. Haught	than 1/8	LB 85	8 52		
		Sherman H. Parks and Delia Parks, his wife and C. F. Wilson and Bessie I.		Not less				

WV Department of Environmental Protection

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		Glenn L., Warren R. & Eldon J. Haught, DBA,				
	7-26-6, 7-26-6.2, 7-26-6.3		L. E. Haught	LB 110	33	
	. (•				
		Glenn L., Warren R. &	Section 10 and 1			
	Calculation and State	Eldon J. Haught, DBA,	Glenn L. Haught and/or Bernice	18.33	100	
	7-26-6, 7-26-6.2, 7-26-6.3	Glenn L. Haught & Sons	Haught	LB 111	186	
	77667766777663	Glenn L. Haught and Sons	M. F. Frederick	LB 118	233	
	7-26-6, 7-26-6.2, 7-26-6.3	Warren R. Haught and	W. F. Frederick	LB 110	233	
	7-26-6, 7-26-6.2, 7-26-6.3	Lenna G. Haught	710 Corporation	LB 176	609	
	7-26-6, 7-26-6.2, 7-26-6.3	710 Corporation	Lenna G. Haught	LB 211	514	
	7-26-6, 7-26-6.2, 7-26-6.3	Lenna G. Haught	HAH Petroleum, Inc.	LB 212	88	
	7-26-6, 7-26-6.2, 7-26-6.3	Ira M. Haught	Whittle Corporation	DB 276	283	
	7 20 0,7 20 0.2,7 20 0.3	Oma Jean Lynch and	militae es pereuen		945	
	7-26-6, 7-26-6.2, 7-26-6.3	Richard C. Lynch	Whittle	LB 237	842	
	7-26-6, 7-26-6.2, 7-26-6.3	Ida Mae Parks	Whittle Corporation	LB 237	843	
	, 20 0, 7 20 012, 7 20 010	Karen I. Harris and				
	7-26-6, 7-26-6.2, 7-26-6.3	Kenton E. Harris	Whittle Corporation	LB 237	844	
	, 25 6, 1 25 612, 1 25 616	Pamela J. Stanley and				
	7-26-6, 7-26-6.2, 7-26-6.3	Gary R. Stanley	Whittle Corporation	LB 237	845	
	7-26-6, 7-26-6.2, 7-26-6.3	710 Corporation	Whittle Corp.	LB 234	182	
	7-26-6, 7-26-6.2, 7-26-6.3	Whittle Corporation	Petroedge Resources, LLC	LB 237	136	
		Petroedge Resources,				
	7-26-6, 7-26-6.2, 7-26-6.3	LLC	Petroedge Resources, LLC	LB 237	515	
	7-26-6, 7-26-6.2, 7-26-6.3	Pamela J. Stanley	Whittle Corporation	LB 239	351	
		Oma Jean Lynch and				
	7-26-6, 7-26-6.2, 7-26-6.3	Richard C. Lynch	Whittle Corporation	LB 239	352	
	7-26-6, 7-26-6.2, 7-26-6.3	Karen I Harris	Whittle Corporation	LB 239	408	
	7-26-6, 7-26-6.2, 7-26-6.3	Alan R. Haught	Petroedge Resources, LLC	LB 239	631	
	7-26-6, 7-26-6.2, 7-26-6.3	Ida Mae Haught Parks	Whittle Corporation	LB 239	670	
	7-26-6, 7-26-6.2, 7-26-6.3	Eldon J. Haught	Petroedge Resources, LLC	LB 239	925	
		Warren R. Haught and				
	7-26-6, 7-26-6.2, 7-26-6.3	Lenna G. Haught	Whittle Corporation	LB 241	538	
		Quest Eastern				
		Resources, LLC				
		(Petroedge Resources				
	7-26-6, 7-26-6.2, 7-26-6.3	LLC.)	Quest Cherokee, LLC	LB 246	1062	
			PostRock Eastern Production,	30.251	622.0	
	7-26-6, 7-26-6.2, 7-26-6.3	Production, LLC	LLC	LB 254	553	
	7-26-6, 7-26-6.2, 7-26-6.3	UIV, LLC	Alpha Helix Energy, LLC	LB 297	587	
		Stephen J. Moriarty,				
		solely in his capacity as				
		Chapter 11 Trustee for				
	7-26-6, 7-26-6.2, 7-26-6.3	PostRock Energy Corp.	UIV, LLC	LB 297	556	
	7-26-6, 7-26-6.2, 7-26-6.3	710 Corporation	Whittle Corporation	LB 308	27	
	, 10 0, 1 10 012, 1 10 013	, = 0				
		Whittle Corp., Montani				
		Energy, LLC, Haught				
		Energy Corp., and Alpha				5
	7-26-6, 7-26-6.2, 7-26-6.3	Helix Energy, LLC	Burning Springs Energy, LLC	LB 308	796	Ce
		Burning Springs Energy,				
	7-26-6, 7-26-6.2, 7-26-6.3	LLC	HG Energy II Appalachia, LLC	INS#	201800006269	1
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/		S.H. Westfall and Minnie		Not less			
E) 🗸	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	Westfalle	Hope Natural Gas Company	than 1/8	LB 27	277	
<i>,</i> . ▲		Hope Natural Gas	Consolidated Gas Supply				
	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	Company	Corporation		DB 1S1	436	
		Consolidated Gas Supply	Consolidated Gas				
	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	Corp.	Transmissions Corp		LB 169	756	
	7-20-7, 7-20-7.1, 7-20-7.2, 7-20-7.3	Corp.	Transmissions corp		20 103		
		Dominion Exploration					
	7 26 7 7 26 74 7 26 7 2 7 26 7 2	· •	Daminian Transmission Inc		LB 251	621	
	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	and Production, In.	Dominion Transmission, Inc		LD 231	021	
		Dominion	Consol Energy Holdings LLC		10.054	640	
	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	Transmission, Inc	XVI		LB 251	648	
	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	CNX Gas Company	Noble Energy, Inc.		LB 254	811	
	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	CNX Gas Company	Noble Energy, Inc.		LB 304	287	
	7-26-7, 7-26-7.1, 7-26-7.2, 7-26-7.3	Noble Energy, Inc.	HG Energy II Appalachia, LLC		LB 309	_ 32	
				Not less			
F) 🗸	7-18-29, 7-18-30	Bonnie C. Keister	Warren R. Haught	than 1/8	LB 126	383	
		Michael P. Elliott, James					
		W. Elliott, Linda L. Elliott,					
		Gary J. Weber, and Gary					
		J. Weber Guardian of					
		Timothy A. Weber,		Not less			
	7-18-29, 7-18-30	(Mary C Elliot Heirs)	Warren R. Haught	than 1/8	LB 126	357	
		Shirley J. Ash, Roy L. Ash,					
		Gary A. Elliott, Youn Su					
		Elliott, Bonnie L. Mayle		Not less		252	
	7-18-29, 7-18-30	(Mary C. Elliott Heirs)	Warren R. Haught	than 1/8	LB 126	359	
		James W Elliott and					
		Wanda Jean Elliott (Mary		Not less		270	
	7-18-29, 7-18-30	C. Elliott Heirs)	Warren R. Haught	than 1/8	LB 126	379	
		Robert Elliott Donald M.					
		Elliott, David Paul Elliot					Sg
		and his wife Janet Sue					യ് ഇട
		Elliott, Gary Blaine Norris					VED and G. 2018
		and his wife Sue Ellen					NE La
		Norris (Mary C. Elliott		Not less		205	RECEIVED se of Oil and Gas
	7-18-29, 7-18-30	Heirs)	Warren R. Haught	than 1/8	LB 126	385	Office of (
		Barbara E. Nicoloff,					fice of FEP
		Joseph W. Butcher and					SIS
		Mary Kay Butcher (Mary		Not less	10400	204	-
	7-18-29, 7-18-30	C. Elliott Heirs)	Warren R. Haught	than 1/8	LB 126	381	
		Velma Collins and C H	144. 6.11. 14	Not less	10 127	0.7	
	7-18-29, 7-18-30	Collins	Warren R. Haught	than 1/8	LB 127	97	
	7 10 20 7 10 20	Edna B Oldaker and John		Not less than 1/8	LB 126	377	
	7-18-29, 7-18-30	J Oldaker	Warren R. Haught	triali 1/0	LD 120	311	
	7 10 20 7 10 20	Warren R Haught and	710 Corneration		LB 176	609	
	7-18-29, 7-18-30	Lenna G Haught	710 Corporation F&S Drilling, Inc		LB 176	528	
	7-18-29, 7-18-30	710 Corporation	F&S Drilling, Inc		LB 190	698	
	7-18-29, 7-18-30	710 Corporation	reas Drilling, Inc		LD 130	038	
		F&S Drilling, Inc by Frank					
		J Keating, President and					
		F&S Drilling, by Frank J					
		Keating as General					
	7-18-29, 7-18-30	Partner	710 Corporation		LB 211	37	
	7-18-29, 7-18-30	710 Corporation	Whittle Corp		LB 234	182	
	7-18-29, 7-18-30	Whittle Corporation	Petroedge Resources, LLC		LB 237	136	
	·, · ·	PetroEdge Resources,	5 ,				
	7-18-29, 7-18-30	LLC	PetroEdge Resources (WV), LLC		LB 237	515	
			- · · ·				
	7-18-29, 7-18-30	Whittle Corporation	Petroedge Resources (WV), LLC		LB 246	511	
		Quest Eastern					
		Resources, LLC					
		(Petroedge Resources					
	7-18-29, 7-18-30	LLC.)	Quest Cherokee, LLC		LB 246	1062	

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	7-18-29, 7-18-30	PostRock MidContinent Production, LLC	PostRock Eastern Production, LLC		LB 254	553
		Stephen J. Moriarty, solely in his capacity as Chapter 11 Trustee for				
	7-18-29, 7-18-30	PostRock Energy Corp. UIV, LLC	UIV, LLC Alpha Helix Energy, LLC		LB 297 LB 297	556 587
	7-18-29, 7-18-30	710 Corporation	Whittle Corp		LB 308	27
		Whittle Corp., Montani Energy, LLC, Haught Energy Corp., and Alpha			10.200	700
	7-18-29, 7-18-30	Helix Energy, LLC Burning Springs Energy,	Burning Springs Energy, LLC		LB 308	796
	7-18-29, 7-18-30	rrc	HG Energy II Appalachia, LLC		INS#	201800006269
G) /	7-18-19, 7-18-31, 7-18-32 7-18-19, 7-18-31, 7-18-32 7-18-19, 7-18-31, 7-18-32	Mary E Scott, Bessie Scott, Sarah Scott, all single, LB Scott and Eva O Scott, his wife, Viola M Scott, widow and Viola M Scott, Guardian of Mary E Scott, Opal M Scott and Ernest M Scott, AA Scott and Eddie A Scott, his wife, GD McElroy and GD McElroy, Guardian, Allie J Scott, May Lamo and Harold Lamp, her husband Hope Natural Gas Company Consolidated Gas Supply Corp.	Hope Natural Gas Company Consolidated Gas Supply Corporation	Not less than 1/8	LB 43 DB 151 LB 169	357 436 756
	7-18-19, 7-18-31, 7-18-32	Dominion Exploration and Production, In.	Dominion Transmission, Inc		LB 251	621
	7-18-19, 7-18-31, 7-18-32	Dominion Transmission, Inc	Consol Energy Holdings LLC XVI		LB 251	648
	7-18-19, 7-18-31, 7-18-32	CNX Gas Company	Noble Energy, Inc.		LB 254	811
	7-18-19, 7-18-31, 7-18-32	CNX Gas Company	Noble Energy, Inc.		LB 304	287
	7-18-19, 7-18-31, 7-18-32	Noble Energy, Inc.	HG Energy II Appalachia, LLC		LB 309	32

Office of Oil and Gas

Office of Oil and Gas

SEP 12 2018

SEP 19 Protection

Environmental Protection

			· ···			
		Ada M Elliot, widow, Ray Elliott and Helen Elliot, his wife, Louie G Elliott and Wilma Elliott, his wife, Charles A Elliott and Velma Elliott, his wife, Charles A Elliott and Velma Elliott, his wife, Chantilla Buzzard, widow, Ora Mae McAtee and Bill McAtee, her husband, Kenneth Buzzard and Bernice Buzzard, his wife, Okey L Buzzard and Geraldine Buzzard, his wife, Maurice D Buzzard and Helen M Buzzard, his wife, Dora J Wright and Kenneth E Wright, her husband, Donald Buzzard and Madeline Buzzard, his wife, Burl P Buzzard and Anne D				
		Buzzard, his wife, and Dorothy Lou White and				
		Willard Ray White, her	Alegheny Land and Mineral	Not less		
H)	7-18-18	husband	Company	than 1/8	LB 89	314
			Columbia Natural Resources,			İ
	7-18-18	Alamco, Inc	Inc		DB 269	668
		Columbia Natural				
	7-18-18	Resources, Inc Chesapeake Appalachia,	Chesapeake Appalachia, LLC Statoilhydro USA Onshore		DB 294	520
	7-18-18	LLC	Properties, Inc		LB 247	875
			Statoilhydro USA Onshore			
	7-18-18	LLC	Properties, Inc		LB 247	884
		Chesapeake Appalachia,				
	7-18-18	LLC	SWN Production Company, LLC		LB 208	707
		SWN Production Company, LLC. And Statoilhydro USA				
<u> </u>	7-18-18	Onshore Properties, Inc	HG Energy II Appalachia, LLC		INS#	201800005399

SEP 1 2 2018

	Ruth E. Johnson, Ronald				•
	Johnson, Wilmer and				
	Beverly Johnson, Sara L				
	and Emmet R Berry, Jr.				
	Edith Farris, llene V				
	Williams, George H		Not less		
7-18-15	Williams	Warren R Haught	than 1/8	LB 155	526
, 10 13	Frank I Allebaugh and	Traine in that give	Not less		
7-18-15	Pearl E Allebaugh	Warren R Haught	than 1/8	LB 156	551
7 10 13	Warren R Haught and	vanen i naagne			
7-18-15	Lenna G Haught	710 Corporation		LB 176	609
7-18-15	710 Corporation	Lenna G Haught		LB 211	514
7-18-15	Lenna G Haught	HAH Petroleum, Inc		LB 212	88
7-18-15 7-18-15	HAH Petroleum	Hughes Resources, Inc		LB 222	15
7-18-13	nan redoledii	riugiles Resources, inc		CO 222	13
7-18-15	Hughes Resources, Inc	HAH Petroleum		LB 223	332
7-18-15	Lenna G Haught	HAH Petroleum, Inc		LB 224	644
	HAH Petroleum, Inc, by				
7-18-15	Trustee	Whittle Corporation		LB 276	283
7-18-15	Whittle Corporation	Petroedge Resources, LLC		LB 237	136
	Petroedge Resources,				
7-18-15	LLC	Petroedge Resources, LLC		LB 237	515
	Quest Eastern				
	Resources, LLC				
	(Petroedge Resources				
7-18-15	LLC.)	Quest Cherokee, LLC		LB 246	1062
	Desail and Add Continues	Deatherly Feature Production			
74045	PostRock MidContinent	PostRock Eastern Production, LLC		LB 2S4	553
7-18-15	Production, LLC	LLC		LD 234	333
	Stephen J. Monarty,				
	solely in his capacity as				
	Chapter 11 Trustee for				
7-18-15	PostRock Energy Corp.	UIV, LLC		LB 297	556
7-18-15	UIV, LLC	Alpha Helix Energy, LLC		LB 297	587
7-10-13	0.17, 220				
	Whittle Corp., Montani				
	Energy, LLC, Haught				
	Energy Corp., and Alpha				
7-18-15	Helix Energy, LLC	Burning Springs Energy, LLC		LB 308	796
	Burning Springs Energy,	- /·			
7-18-15	LLC	HG Energy II Appalachia, LLC		INS#	201800006269

SEP 1 2 2018

WV Department of Environmental Protection

i		Violet Hedge, for herself				
		and as Attorney for WR		Not less		
K) 🗸	7-18-8	Hedge	Warren R Haught	than 1/8	LB 159	437
		Warren R Haught and				
	7-18-8	Lenna G Haught	710 Corporation		LB 176	609
	7-18-8	710 Corporation	Lenna G Haught		LB 211	514
	7-18-8	Lenna G Haught	HAH Petroleum, Inc		LB 212	88
	7-18-8	HAH Petroleum	Hughes Resources, Inc		LB 222	15
	7-18-8	Hughes Resources, Inc	HAH Petroleum		LB 223	332
	7-18-8	Lenna G Haught	HAH Petroleum, Inc		LB 224	644
		HAH Petroleum, Inc, by				
	7-18-8	Trustee	Whittle Corporation		LB 276	283
	7-18-8	Whittle Corporation	Petroedge Resources, LLC		LB 237	136
		Petroedge Resources,				
	7-18-8	LLC	Petroedge Resources, LLC		LB 237	515
		Quest Eastern				
		Resources, LLC				
		(Petroedge Resources				
	7-18-8	LLC.)	Quest Cherokee, LLC		LB 246	1062
		PostRock MidContinent	PostRock Eastern Production,			
	7-18-8	Production, LLC	LLC		LB 254	553
		Stephen J. Moriarty,				
		solely in his capacity as				
		Chapter 11 Trustee for				
	7-18-8	PostRock Energy Corp.	UIV. LLC		LB 297	556
	7-18-8	UIV, LLC	Alpha Helix Energy, LLC		LB 297	587
		,	,			
		Whittle Corp., Montani				
		Energy, LLC, Haught				
		Energy Corp., and Alpha				
	7-18-8	Helix Energy, LLC	Burning Springs Energy, LLC		LB 308	796
	, 200	Burning Springs Energy,	3			
	7-18-8	LLC	HG Energy II Appalachia, LLC		INS#	201800006269
	7-10-0		Liter By in Apparationa, LLC			

SEP 1 2 2018

WV Department of Environmental Protection

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	Ethel Haught, WT Parks and Carrie V Parks, his wife, Carrie B Waggoner and Pearl P Waggoner, his wife, Paul Ryan and Mary Ryan, his wife, and Kenneth H Parks and		Not less		
7-18-7	Rose Parks, his wife Sylvia Snyder and Lelia	Dale Wolfe	than 1/8 Not less	LB 121	202
7-18-7	Atkinson	Dale Wolfe	than 1/8	LB 121	300
7-18-7	Dale Wolfe	Warren R Haught	, .	LB 123	154
	Emerson Jones and Joan Jones, his wife, OW Gatrell and Camilla Gatrell, his wife, Barbara Doak and Clyde Doak, Jr., her husband and Bill				
	Stout and Jeannette		Not less		
7-18-7	Stout, his wife	Dale Wolfe	than 1/8	LB 122	13
7-18-7	Dale Wolfe	Warren R Haught		LB 123	152
7-18-7	Warren R Haught	Glenn L Haught and Sons		LB 127	495
7-18-7	Glenn L Haught and Sons Landmark Resources	Landmark Resources Corp.		LB 126	594
7-18-7	Corp.	Glenn L Haught and Sons		LB 133	448
	Barry D Haught and Warren R Haught, DBA				
7-18-7	Glenn L Haught and Sons	Haught, Inc.		LB 152	155
7-18-7	Haught, inc. Warren R Haught and	Warren R Haught		LB 173	496
7-18-7	Lenna G Haught Haught Oil Producing,	710 Corporation		LB 176	609
7-18-7	formerly Haught, Inc	710 Corporation		LB 180	791
7-18-7	710 Corporation	Lenna G Haught		LB 211	514
7-18-7	Lenna G Haught	HAH Petroleum, Inc		LB 212	88
7-18-7	HAH Petroleum, Inc	Hughes Resources, Inc		LB 222	15
7-18-7	Hughes Resources, Inc	HAH Petroleum, Inc		LB 223	332
7-18-7	Lenna G Haught	HAH Petroleum, Inc		LB 224	644
	Ü	•			

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	HAH Petroleum, Inc, by			Ī
7-18-7	Trustee	Whittle Corporation	LB 276	283
7-18-7	710 Corporation	Whittle Corporation	LB 234	182
7-18-7	Lenna G. Haught	710 Corporation	LB 234	600
7-18-7	Warren R. Haught	710 Corporation	LB 234	601
7-18-7	Whittle Corporation	Petroedge Resources, LLC	LB 237	136
	Petroedge Resources,			
7-18-7	LLC	Petroedge Resources, LLC	LB 237	515
	Quest Eastern			
	Resources, LLC			
	(Petroedge Resources			
7-18-7	LLC.)	Quest Cherokee, LLC	LB 246	1062
	Postrock Mid Continent	PostRock Eastern Production,		
7-18-7	Production, LLC	LLC	LB 254	553
	Stephen J. Moriarty,			ŀ
	solely in his capacity as			ł (
	Chapter 11 Trustee for			
7-18-7	PostRock Energy Corp.	UIV, LLC	LB 297	556
7-18-7	UIV, LLC	Alpha Helix Energy, LLC	LB 297	587
7-18-7	710 Corporation	Whittle Corporation	LB 308	27
	Whitele Corp. Montoni			
	Whittle Corp., Montani Energy, LLC, Haught			:
	Energy Corp., and Alpha			
7-18-7	Helix Energy, LLC	Burning Springs Energy, LLC	LB 308	796
/-10-/	Burning Springs Energy,	burning Springs Ellergy, LLC	LD 308	750
7-18-7	LLC	HG Energy II Appalachia, LLC	INS#	201800006269
, 10 /		z.i.c.87ppaidema, zze		

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Tracia D. Medonald
RITCHIE County 11:33:25 AO1/11/2019
Instrument No 201800006269
Date Recorded 07/19/2018
Document Type AO8G
Pages Recorded 21
Book-Page 316-372-392
Recording Fee \$21.00
Additional \$8.00

ASSIGNMENT OF OIL AND GAS LEASES

This ASSIGNMENT OF OIL AND GAS LEASES is made and entered into this 1st day of July, 2018 by and between **BURNING SPRINGS ENERGY, LLC**, a Delaware limited liability company whose address is 5260 Dupont Road, Parkersburg, WV 26101, the ("Assignor"), and **HG ENERGY II APPALACHIA**, LLC, a Delaware limited liability company whose address is 5260 Dupont Road, Parkersburg, WV 26101, the ("Assignee").

For and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER AND DELIVER unto Assignee, any and all of Assignor's right, title and interest in and to any and all Oil, Gas or Surface Fee Interests, Oil and Gas Leases, Royalties, Surface Agreements, Rights of Way, Contracts, Agreements, or any other interest of any kind related to the exploration and development of Oil and Gas it may own in the state of West Virginia, including, but not limited to the oil and gas leases described on the attached Exhibit "A".

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date of the acknowledgment annexed hereto.

[SIGNATURE PAGE TO FOLLOW]

Office of Oil and Gas

JAN 2019

WY Department of Environmental Projection

Assignor:	Assignee:	JAN 7 REC'D
BURNING SPRINGS ENERGY, LLC	HG ENERGY II APPALACHIA, LI	vironmental Protection
By: Jarra Hall Its: President	By: Javed Hall Its: President	
State of West Virginias		
appeared Jaced Hall of BURNING SPRINGS ENE	RGY, LLC, a Limited Liability Con so, executed the foregoing in	to be the npany, and that as
My Commission expires: Que 30 2022	2	
IN WITNESS WIEROF Libereunto set on hand and office OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA JEANINE M. GAUTHIER HG Energy, LIC S280 Dupont Road Parkersburg, West Virginia 25101 My Commission Expires Aug. 30, 2022	Jeanis M. Jul Notary Public	300
State of West Virginias County of Wood s		
appeared Jared Hall	Limited Liability Company.	to be the Company, and that instrument for the RECEIVED deas
My Commission expires: Que 30 202	2	JAN 7 REC'D
IN WITNESS WHEROF, I hereunto set my hand and office	ial seal.	Wy Department of Environmental Protection
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA HIGH HIGH HIGH HIGH HIGH HIGH HIGH HI	Jeanwe M. Jo Notary Public	JAN 7 REC'D 2019 WV Department of Environmental Protection

Office of Oil and Gas

WV Department of Environmental Protection

LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
BSE-6	CAROLINE E. MIDDLETON & MICHAEL K. STEWART	Burning Springs Energy	2/5/2018	26	RITCHIE	314	158-162	201800003632
BSE-7	DANIEL S. & JEANNETTE M. MIDDLETON	Burning Springs Energy	1/29/2018	26	RITCHIE	314	163-167	201800003634
BSE-8	JAMES E. & PAULA L. LYNCH	Burning Springs Energy	4/7/2018	26	RITCHIE	314	682-684	201800004493
BSE-9	EDNA MAE HARDMAN AKA EDNA W. HARDMAN	Burning Springs Energy	2/17/2018	26	RITCHIE	314	685-687	201800004494
CAD 22	Brickerstaff	C.T. Moore and K.W. Fox	11/23/1957	16	RITCHIE	87	35	
CAD18	R. Dawson	N.G. Busch	3/5/1978	76	RITCHIE	125	283	
CAD19	C.W. Kemp	N.G. Busch	12/1/1977	171	RITCHIE	125	285	,
CAD20	A.L. Hays	W.R. Hays and A.G. Roberts	6/16/1920	50	RITCHIE	44	341	
CAD21	E.C. Dawson No 1	Shannon Dawson	5/20/1935	22.5	RITCHIE	63	458	
CAD23	L. Wilson	K.W. Fox and C.T. Moore	1/28/1958	90	RITCHIE	88	183	
CAD24	G.M. Haught	Guy R. Sinsel & Lee Shaffer	4/16/1910	84	RITCHIE	33	438	
108166-00	CRANE, WALTER C	HG ENERGY, LLC	4/5/2012	16.75	RITCHIE	256	337	
108166-01	WILSON, EMMETT G & BESSIE I	HG ENERGY, LLC	4/5/2012	16.75	RITCHIE	256	334	
108166-02	SIMMONS, RICHARD W AGENT FOR LILA M	HG ENERGY, LLC	4/5/2012	16.75	RITCHIE	256	624	
108185-00	SAMPSON, CYRUS J AND HELEN L	HG ENERGY, LLC	10/7/2012	4.25	RITCHIE	258	997	
108245-00	HAYS, THOMAS R JR & KATHERINE	HG ENERGY, LLC	1/1/2013	62	RITCHIE	264	204	
108245-01	ERLICHMAN, BONNIE HAYS & JOSEPH S	HG ENERGY, LLC	5/3/2013	62	RITCHIE	264	210	
108245-02	HAYS, JEANE ANN	HG ENERGY, LLC	5/7/2013	62	RITCHIE	264	566	
108245-03	STRICCHIOLA, SHARON L	HG ENERGY, LLC	6/19/2013	60	RITCHIE	265	195	
108245-04	SEE, RICHARD MICHAEL	HG ENERGY, LLC	9/8/2014	62	RITCHIE	277	26	
108245-05	SEE, ROBERT EDWARD & JUDITH P	HG ENERGY, LLC	9/13/2014	62	RITCHIE	277	428	
108259-00	SEE, RICHARD MICHAEL	HG ENERGY, LLC	6/24/2013	121.6	RITCHIE	265	207	
108259-01	RICE, STEPHEN WAYNE & ELIZABETH	HG ENERGY, LLC	6/15/2013	121.6	RITCHIE	265	204	
108259-02	LIGUORI, FRANK J SR BY ATTY IN FACT	HG ENERGY, LLC	7/1/2013	121.6	RITCHIE	265	634	
108259-03	SEE, ROBERT EDWARD & JUDITH P	HG ENERGY, LLC	7/9/2013	121.6	RITCHIE	265	817	
108259-04	BYRD, SANDRA M	HG ENERGY, LLC	9/25/2013	121.6	RITCHIE	267	489	
108259-05	MCKEOWN, JOAN J	HG ENERGY, LLC	10/22/2013	121.6	RITCHIE	267	982	
108259-06	JOERNDT, LOUISE	HG ENERGY, LLC	10/22/2013	121.6	RITCHIE	268	270	
108259-07	RICE, THOMAS M & AMY C	HG ENERGY, LLC	3/9/2014	121.6	RITCHIE	271	230	
108260-00	HAYS-NERLINO, JEANE ANN	HG ENERGY, LLC	6/25/2013	36.75	RITCHIE	265	198	
108260-01	HAYS, THOMAS R JR & KATHERINE M	HG ENERGY, LLC	7/3/2013	36.75	RITCHIE	265	637	
108260-02	ERLICHMAN, BONNIE HAYS & JOSEPH S	HG ENERGY, LLC	7/12/2013	36.75	RITCHIE	265	820	
108260-03	STRICCHIOLA, SHARON L	HG ENERGY, LLC	7/19/2013	36.75	RITCHIE	266	18	15
108363-00	HAYS, THOMAS R JR & KATHERINE M	HG ENERGY, LLC	9/15/2014	5.9	RITCHIE	277	425	
108363-01	HAYS, JEANE ANN	HG ENERGY, LLC	9/12/2014	5.9	RITCHIE	277	431	



WV Department of Environmental Protection

LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
108363-02	W R HAYS	HG ENERGY, LLC	9/23/2014	5.9	RITCHIE	278	667	
108363-03	W R HAYS FARM	HG ENERGY, LLC	9/17/2014	5.9	RITCHIE	278	670	
108364-00	HAYS, THOMAS R JR & KATHERINE M	HG ENERGY, LLC	9/12/2014	44	RITCHIE	277	434	
108364-01	HAYS, JEANE ANN	HG ENERGY, LLC	9/12/2014	44	RITCHIE	277	437	
108364-02	M L PATTERSON	HG ENERGY, LLC	9/23/2014	44	RITCHIE	278	673	
108364-03	M L PATTERSON	HG ENERGY, LLC	9/17/2014	44	RITCHIE	278	676	
108365-00	HAYS JR, THOMAS R ET UX	HG ENERGY, LLC	9/15/2014	48	RITCHIE	279	847	
108365-01	NEELY, DIONNE	HG ENERGY, LLC	9/16/2014	48	RITCHIE	279	850	-
108365-02	I R WILSON	HG ENERGY, LLC	9/18/2014	48	RITCHIE	279	853	
108365-03	I R WILSON	HG ENERGY, LLC	9/19/2014	48	RITCHIE	279	856	
108365-04	I R WILSON	HG ENERGY, LLC	9/19/2014	48	RITCHIE	279	859	
108365-05	I R WILSON	HG ENERGY, LLC	9/30/2014	48	RITCHIE	279	862	
108365-06	I R WILSON	HG ENERGY, LLC	9/17/2014	48	RITCHIE	279	865	
108365-07	I R WILSON	HG ENERGY, LLC	9/23/2014	48	RITCHIE	279	868	
108365-08	I R WILSON	HG ENERGY, LLC	9/17/2014	48	RITCHIE	279	871	
108365-09	MCGINNIS, ARLENE WASS BY KATHRYN M MCDON	HG ENERGY, LLC	10/28/2014	48	RITCHIE	279	616	
108365-10	SCOTT, CAROL ANN & STEVE F SCOTT	HG ENERGY, LLC	10/27/2014	48	RITCHIE	279	619	
108365-11	HAMRICK JR, HARRISON GORE & RENEE HAMRIC	HG ENERGY, LLC	10/30/2014	48	RITCHIE	279	622	
108365-12	HAMRICK, PATRICIA LEIGH	HG ENERGY, LLC	10/31/2014	48	RITCHIE	279	625	
108365-13	HAMRICK, VIRGINIA LEE	HG ENERGY, LLC	10/28/2014	48	RITCHIE	279	628	
108365-14	HAMRICK, ROY DOLLIVER	HG ENERGY, LLC	10/29/2014	48	RITCHIE	279	631	
108365-15	HAMRICK, EUGENE L	HG ENERGY, LLC	10/31/2014	48	RITCHIE	279	634	
108365-16	HAMRICK, JAMES	HG ENERGY, LLC	11/13/2014	48	RITCHIE	279	637	
108365-17	POLLY, PHYLLIS ELAINE & WILLIAM L POLLY	HG ENERGY, LLC	11/13/2014	48	RITCHIE	279	640	
108365-18	PLOEHN, PATRICIA WASS & HARRY C PLEOHN	HG ENERGY, LLC	11/5/2014	48	RITCHIE	279	643	
108365-19	STEPHENSON, STEVEN G & ABBI K	HG ENERGY, LLC	11/28/2014	48	RITCHIE	280	760	
108365-20	HAMRICK, DAVID WAYNE	HG ENERGY, LLC	12/19/2014	48	RITCHIE	281	407	
108365-21	HAMRICK, JONATHAN	HG ENERGY, LLC	11/7/2014	48	RITCHIE	281	410	
108365-22	HAMRICK MARK	HG ENERGY, LLC	12/21/2014	48	RITCHIE	282	1	
108365-23	I R WILSON FARM	HG ENERGY, LLC	1/31/2015	48	RITCHIE	282	258	
108365-24	I R WILSON FARM	HG ENERGY, LLC	9/15/2014	48	RITCHIE	282	265	
108365-25	I R WILSON FARM	HG ENERGY, LLC	1/30/2015	48	RITCHIE	282	272	
108366-00	WILLIAM DAWSON HEIRS	HG ENERGY, LLC	9/15/2014	100	RITCHIE	177	440	
108367-00	LE HAYS	HG ENERGY, LLC	9/8/2014	1	RITCHIE	277	443	
108374-00	JAMES WILSON	HG ENERGY, LLC	11/3/2014	82.58	RITCHIE	279	646	

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WV Department of Environmental Protection

LeaseNumber	Lessor	Lassee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
108374-01	HAYS JR, THOMAS R & KATHERINE M HAYS	HG ENERGY, LLC	11/4/2014	82.58	RITCHIE	279	650	
108374-02	ERLICHMAN BONNIE HAYS & JOSEPH ERLICHMAN	HG ENERGY, LLC	11/13/2014	82.58	RITCHIE	279	653	
108374-03	JAMES WILSON	HG ENERGY, LLC	11/14/2014	82.58	RITCHIE	282	275	
108374-04	JAMES WILSON FARM	HG ENERGY, LLC	1/26/2015	82.58	RITCHIE	282	278	
108374-05	JAMES WILSON FARM	HG ENERGY, LLC	1/27/2015	82.58	RITCHIE	282	281	
108374-06	JAMES WILSON FARM	HG ENERGY, LLC	1/26/2015	82.58	RITCHIE	282	284	
108374-08	JAMES WILSON	HG ENERGY, LLC	11/26/2014	82,58	RITCHIE	282	290	
108374-09	JAMES WILSON FARM	HG ENERGY, LLC	1/31/2015	82.58	RITCHIE	283	239	
108374-10	JAMES WILSON FARM	HG ENERGY, LLC	1/24/2015	82.58	RITCHIE	283	242	
108391-00	HAYS, THOMAS R & KATHERINE M HAYS	HG ENERGY, LLC	11/18/2014	5.25	RITCHIE	280	775	
108391-01	JAMES WILSON FARM	HG ENERGY, LLC	12/9/2014	5.25	RITCHIE	281	413	
108391-02	JAMES WILSON FARM	HG ENERGY, LLC	12/17/2014	5.25	RITCHIE	281	416	
108391-03	JAMES WILSON	HG ENERGY, LLC	1/3/2015	5.25	RITCHIE	281	419	
108391-04	JAMES WILSON	HG ENERGY, LLC	1/2/2015	5.25	RITCHIE	281	422	
108391-05	JAMES WILSON	HG ENERGY, LLC	1/3/2015	5.25	RITCHIE	281	425	
108391-06	CRAWFORD, THOMAS J & PAULA A CRAWFORD	HG ENERGY, LLC	1/3/2015	5.25	RITCHIE	281	428	
1.08391-07	JAMES WILSON	HG ENERGY, LLC	12/23/2014	5.25	RITCHIE	281	431	
108391-08	JAMES WILSON	HG ENERGY, LLC	1/5/2015	5.25	RITCHIE	281	434	
108391-09	JAMES WILSON	HG ENERGY, LLC	1/8/2015	5.2	RITCHIE	282	4	
108391-10	JAMES WILSON	HG ENERGY, LLC	1/12/2015	5.25	RITCHIE	282	7	
108391-11	JAMES WILSON	HG ENERGY, LLC	1/13/2015	5.25	RITCHIE	282	10	
108391-12	JAMES WILSON	HG ENERGY, LLC	1/13/2015	5.25	RITCHIE	282	13	
108391-13	JAMES WILSON	HG ENERGY, LLC	1/14/2015	5.25	RITCHIE	282	16	
108391-14	JAMES WILSON	HG ENERGY, LLC	1/19/2015	5.25	RITCHIE	282	33	
108391-15	JAMES WILSON	HG ENERGY, LLC	1/20/2015	5.25	RITCHIE	282	34	
108391-16	JAMES WILSON	HG ENERGY, LLC	1/15/2015	5.25	RITCHIE	282	19	
108391-17	JAMES WILSON	HG ENERGY, LLC	1/22/2015	5.25	RITCHIE	282	22	
108391-18	JAMES WILSON FARM	HG ENERGY, LLC	1/30/2015	5.25	RITCHIE	282	293	
108391-19	JAMES WILSON FARM	HG ENERGY, LLC	1/10/2015	5.25	RITCHIE	283	245	
108391-20	JAMES WILSON FARM	HG ENERGY, LLC	2/20/2015	5.25	RITCHIE	283	248	
108391-21	JAMES WILSON FARM	HG ENERGY, LLC	3/5/2015	5.25	RITCHIE	283	975	
108391-22	JAMES WILSON FARM	HG ENERGY, LLC	3/10/2015	5.25	RITCHIE	283	988	
108391-23	JAMES WILSON FARM	HG ENERGY, LLC	3/13/2015	5.25	RITCHIE	283	991	
108391-24	JAMES WILSON FARM	HG ENERGY, LLC	7/14/2015	5.25	RITCHIE	286	806	
108392-00	Q E BENNETT FARM	HG ENERGY, LLC	1/31/2015	34.25	RITCHIE	282	299	

Office of Oil and Gas

WV Department of Environmental Protection

LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
108392-01	Q E BENNETT FARM	HG ENERGY, LLC	1/30/2015	34.25	RITCHIE	282	305	
108392-02	Q E BENNETT	HG ENERGY, LLC	1/30/2015	34.25	RITCHIE	282	308	
108392-03	Q E BENNETT FARM	HG ENERGY, LLC	3/23/2015	34.25	RITCHIE	283	985	
108393-00	RUTH SNODGRASS	HG ENERGY, LLC	2/3/2015	89.15	RITCHIE	282	311	
108396-00	H.S. WILSON	HG ENERGY, LLC	2/2/2020	540	RITCHIE	50	355	
108400-00	MARY S. GAMBRILL	E. E. Pope	9/30/2024	559	RITCHIE	50	340	
2567-00	JOHN MAHANEY	HG ENERGY, LLC	1/2/2000	51	RITCHIE	9	302	
52492-50	CAMPBELL, C, ET UX	HG ENERGY, LLC	2/21/1898	66	RITCHIE	9	365	
53400-50	KEMP, ELIZABETH ET VIR	HG ENERGY, LLC	4/2/2004	62.5	RITCHIE	19	523	
57053-50	SMITH, ANTHONY ET AL	SOUTH PENN OIL CO.	9/24/2007	555	RITCHIE	23	353	
57115-00	LIGHT, HELEN W	HG ENERGY, LLC	8/18/1982	125	RITCHIE	148	39	
57235-50	HAYS, MARTHA, ET VIR	SOUTH PENN OIL CO.	11/27/2007	231	RITCHIE	23	421	
57624-50	HAUGHT, JOSHUA ET UX	SOUTH PENN OIL CO.	3/2/2008	265	RITCHIE	24	95	
59227-50	CRAFT, J R ET UX	HG ENERGY, LLC	2/12/2009	104	RITCHIE	25	152	
59229-50	FETTY, GC, ET UX	HG ENERGY, LLC	2/13/2009	40	RITCHIE	25	162	
68782-50	KEMP, NEWTON, ET UX	HG ENERGY, LLC	10/14/2015	13	RITCHIE	36	28	
70290-50	PARKS, J.A, ET AL	HG ENERGY, LLC	12/2/2016	100	RITCHIE	39	136	
71615-50	MORRIS, W B ET UX	HG ENERGY, LLC	5/17/2018	113	RITCHIE	40	177	
77649-50	MORRIS, W B ET UX	HG ENERGY, LLC	1/10/2027	106	RITCHIE	53	210	
77650-50	FOY, W P ET AL	SOUTH PENN OIL CO.	1/27/2027	95	RITCHIE	53	124	
80326-50	HAYMOND, CHRISTINA, ET VI	HG ENERGY, LLC	2/20/1942	72	RITCHIE	71	598	
882-00	J. O. LYNCH	HG ENERGY, LLC	10/6/2013	44.5	RITCHIE	69	226	
HAUGHT-1	May Hatifield, widow; Marion Goff and Jesse L. Goff, wife	Victor Bronnen and L. W. Davis	09/01/1960	72	RITCHIE	92	203	
HAUGHT-10	William Charles VanCampen Et Al	Warren R. Haught and Eldon J. Haught	12/27/1976	312	RITCHIE	122	565	
HAUGHT-103	A. M. Douglass Estate	Warren R. Haught	12/18/1980	175	RITCHIE	134	716	
HAUGHT-104	Mabel N. Null, widow	Warren R. Haught	07/11/1979	55.5	RITCHIE	128	115	
HAUGHT-105	Elizabeth I. Fisher and Elmer W. Fisher, her husband	Warren R. Haught	07/11/1979	55.5	RITCHIE	128	119	
HAUGHT-106	Loren D. Newton and Sally Newton, his wife	Warren R. Haught	07/11/1979	55.5	RITCHIE	128	113	
HAUGHT-107	Stephen C. Douglass, Jr. and Pauline K. Douglass	Warren R. Haught	08/03/1979	55.5	RITCHIE	128	117	
HAUGHT-108	Thomas C. Duerr Et Al	Whittle Corporation	06/17/2003	39	RITCHIE	234	595	
HAUGHT-109	Thomas C. Duerr and Susan Atkinson	Whittle Corporation	09/21/2017	39	RITCHIE	311	538	
HAUGHT-11	Appalachian Royalties, Inc.	Warren R. Haught	06/29/1977	100	RITCHIE	123	526	
HAUGHT-110	Thomas C. Duerr and Susan I. Duerr	Warren R. Haught	09/27/1978	48	RITCHIE	126	294	
HAUGHT-111	Raymond L. Duvall and Teresa Duvall, his wife	Whittle Corporation	06/25/2015	55.25	RITCHIE	284	851	1
HAUGHT-112	Vada Britton Et Al	Warren R. Haught	12/28/1976	167	RITCHIE	123	86	

JAN 7 REC'D 8

WV Department of Environmental Protection

LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-113	Barbara Doak Et Al	Warren R. Haught	01/06/1977	167	RITCHIE	123	726	
HAUGHT-114	Jessie Sheets, widow, Eugene Sheets and Janet Sheets, his wife	Whittle Corporation	07/28/2006	139	RITCHIE	241	947	
HAUGHT-115	E. Buck and Fannie E. Buck, his wife	G. H. Earnest and S. S. Porter	2/2/1898	42	RITCHIE	8	327	
HAUGHT-116	Earnest C. Goff, single	Braxton Oil and Gas Corporation	02/19/1975	224	RITCHIE	119	261	
HAUGHT-12	Dennis A. Ingram and Lora A. Ingram	William R. Mossor	07/07/1982	10.81	RITCHIE	146	124	
HAUGHT-120	Floyd B. Eddy Et Al	Glenn L. Haught	11/06/1945	148	RITCHIE	76	163	
HAUGHT-121	Janie E. Spiker, Atty for Robert E. Eddy, Estate	Dale Wolfe	04/05/1980	31.25	RITCHIE	130	614	
HAUGHT-123	Edwin F. Deem and Margaret S. Deem, his wife	H. M. Deem	02/02/1981	26	RITCHIE	134	215	
HAUGHT-124	Edwin F. Deem and Margaret S. Deem, his wife	H. M. Deem	11/04/1980	26	RITCHIE	133	177	14
HAUGHT-125	Eldon J. Haught	Petroedge Resources (WV) LLC	01/16/2006	101	RITCHIE	240	444	
HAUGHT-126	Charles A. and Mildred I. Elllott, husband and wife	Warren R. Haught	12/17/1987	36.147	RITCHIE	198	245	
HAUGHT-127	Harry E. Moats and Irene J. Moats, his wife	Warren R. Haught	06/20/1975	25	RITCHIE	125	478	
HAUGHT-128	Harrison Evans	Warren R. Haught	06/20/1978	25	RITCHIE	125	476	
HAUGHT-13	A. W. Smith and E. V. Smith	W. B. Morris	02/14/1910	143	RITCHIE	32	548	
HAUGHT-130	Fay Ayers, a widow	Durl Fluharty and H. L. Ice	12/23/1960	76	RITCHIE	93	81	
HAUGHT-132	W. E. CunninghamB. A. Cunningham and Frances M. Cunningham	Dale Wolfe	12/28/1976	100	RITCHIE	124	153	
HAUGHT-133	Blonnle Croaks, widow	Dale Wolfe	04/26/1976	100	RITCHIE	120	178	
HAUGHT-134	The W. A. Flesher heirs	Dale Wolfe	04/10/1976	100	RITCHIE	121	175	
HAUGHT-135	Leroy Lowden and Phyllis Lowden, wife	Dale Wolfe	04/10/1976	100	RITCHIE	121	317	
HAUGHT-136	Robert R. Jones	Petroedge Resources (WV) LLC	05/01/2006	100	RITCHIE	241	81	
HAUGHT-137	Robert R. Jones and Judith Jones, wife	Warren R. Haught	04/27/1982	100	RITCHIE	143	789	
HAUGHT-138	W. E. Cunningham Et Al	Dale Wolfe	12/28/1976	100	RITCHIE	124	153	
HAUGHT-139	Guy Fluharty and Iva Fluharty, his wife	W, H. Bickel	05/20/1930	112	RITCHIE	57	535	
HAUGHT-14	Haught Family Trust	Whittle Corporation	06/09/2017	79.5	RITCHIE	308	554	
HAUGHT-140	S. S. Fluharty Et Al	W. H. Bickel	05/28/1931	176	RITCHIE	59	43	
HAUGHT-141	John E. Foster and Edna Foster, his wife	Warren R. Haught	04/21/1981	10	RITCHIE	136	394	
HAUGHT-142	Ralph Foster and Arlene Foster, his wife	Willard E. Ferrell	01/21/1969	96	RITCHIE	113	217	
HAUGHT-143	Ralph Foster Et Al	H. M. Deem	02/04/1978	40	RITCHIE	124	595	
HAUGHT-144	Howard L. Fowler and B. Pearl Fowler, his wife	Phillip Lemon	07/30/1957	50.75	RITCHIE	85	229	
HAUGHT-145	Pearl Fowler/Howard Fowler, mother and son	Ancient Oil Company, Inc.	01/25/1989	50.75	RITCHIE	202	203	
HAUGHT-146	T. R. Frashure and Emogene, his wife	Warren R. Haught	03/01/1979	96.5	RITCHIE	126	769	
HAUGHT-147	Fred H Goff, Sr. Et Al	Haught, Inc.	5/3/1984	50	RITCHIE	171	580	
HAUGHT-148	Fred H. Goff , Sr., wildower	Haught Incorporated	02/15/1982	50	RITCHIE	141	637	
HAUGHT-149	Fred H. Goff, Sr., widower and Fred H. Goff, Jr.	Haught Oll Producing Corp.	05/10/1985	50	RITCHIE	181	144	
HAUGHT-15	Bertha McCoy and W. Robert McCoy	Warren R. Haught	07/27/1978	62.4	RITCHIE	125	719	

Office of Oil and Gas

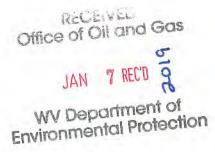
JAN 7 RECTO 2

WV Department of Environmental Protection

LeaseNumber	Lassor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-150	Lottle Frederick Et Al	Warren R. & Eldon Haught, dba Glenn L. Haught & Sons	07/05/1976	22	RITCHIE	121	428	
HAUGHT-151	George Morris and Garnet Morris, husband and wife	Clyde Kelly	06/17/1964	309.5	RITCHIE	102	419	
HAUGHT-152	Paul McCoy and Evelyn McCoy	Glenn L. Haught	03/06/1961	49	RITCHIE	93	483	
HAUGHT-153	William Robert McHenry	Glenn L. Haught	03/03/1956	49	RITCHIE	84	439	
HAUGHT-154	Dewey Gibson and Neva Gibson, his wife	W. H. Bickef	11/01/1933	49	RITCHIE	62	381	
HAUGHT-155	George M. Cokeley and L. P. Cokeley	R. E. L. Frymler	09/15/1916	9.75	RITCHIE	41	528	
HAUGHT-156	A. Goff and Sons Trust	Whittle Corporation	01/04/2008	129	RITCHIE	246	547	
HAUGHT-157	Haught Family Trust	Whittle Corporation	02/15/2008	129	RITCHIE	246	559	
HAUGHT-158	Kiedaish and Summers Enterprises	Whittle Corporation	01/04/2008	129	RITCHIE	246	553	
HAUGHT-162	H. L. Ayers and Fay Ayers, his wife	L. E. Haught and Glenn L. Haught	07/01/1955	35	RITCHIE	84	177	
HAUGHT-163	Daniel Haddox and Clareth Haddox	Warren R. Haught	05/31/1979	105	RITCHIE	127	219	
HAUGHT-164	J. A. Haddox, single	Glenn L. Haught, Warren R. Haught, Eldon J. Haught, dba Glenn L. Haught and Sons	02/11/1963	20	RITCHIE	99	354	
HAUGHT-165	G. W. Hammer and Ann Hammer, his wife	J. W. Hammer and Co	10/24/1908	141	RITCHIE	24	370	
HAUGHT-166	Pearl D. Hammett and Charles L. Hammett, her husband	Warren R. Haught and Eldon J. Haught	09/11/1976	125	RITCHIE	121	726	
HAUGHT-167	Pearl D. Hammett and Charles L. Hammett, her husband	Warren R, Haught and Eldon J. Haught	09/11/1976	80	RITCHIE	121	722	
HAUGHT-168	Harlie G. Smith	North Hills Investment Co., Inc	04/03/1976	60	RITCHIE	120	740	
HAUGHT-169	David L. Schlarb, a married man acting in his own right	Whittle Corporation	06/20/2006	65	RITCHIE	241	522	
HAUGHT-170	David L. Schlarb, a married man acting in his own right	Whittle Corporation	09/11/2013	65	RITCHIE	267	310	
HAUGHT-171	Harry D. Barker and Virgle M. Barker, his wife	Whittle Corporation	04/24/2009	67	RITCHIE	248	531	
HAUGHT-172	Jack Morris and Leonatine Morris	Allstate Energy Corp.	04/06/1981	21.75	RITCHIE	135	298	
HAUGHT-173	May Samples and J. W. SamplesRuby Furbee and Wayne Furbee	Haught Drilling Co. L.E. Haught Atty-in-fact	02/01/1964	17.5	RITCHIE	109	179	
HAUGHT-174	Pansy S. Lemon Et Al	Glenn L. Haught, Warren R. Haught, Eldon J. Haught, dba Glenn L. Haught and Sons	09/08/1966	150	RITCHIE	108	232	
HAUGHT-175	G. W. Braden and M. C. Braden, his wife	J. W. Marshall	06/12/1900	56	RITCHIE	18	246	
HAUGHT-176	Kenneth Hayes and Lorraine Hayes, his wife	Warren R. Haught and Eldon J. Haught, dba Glenn L. Haught & Sons	06/21/1976	60	RITCHIE	123	15	
HAUGHT-177	Violet Hedge for herself and as Attorney for W. R. Hedge Heirs	Warren R. Haught	05/22/1983	46	RITCHIE	159	437	
HAUGHT-178	T. Ralph Hedge Et Al	Warren R. Haught	10/06/1982	46	RITCHIE	159	80	
HAUGHT-179	Haught Family Trust	Whittle Corporation	08/08/2012	20.88	RITCHIE	257	869	
HAUGHT-180	Haught Family Trust, Ira M. Haught Trustee	Whittle Corporation	08/08/2012	1.75	RITCHIE	257	869	
HAUGHT-181	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	06/09/2017	10.63	RITCHIE	310	931	
HAUGHT-182	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	08/08/2012	10.75	RITCHIE	257	869	
HAUGHT-183	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	09/26/2012	100	RITCHIE	258	727	
HAUGHT-184				11.03	RITCHIE			
HAUGHT-185	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	08/08/2012	115.25	RITCHIE	257	869	
HAUGHT-186	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	06/09/2017	116	RITCHIE	308	541	
HAUGHT-188	Haught Family Trust (dated April 17, 1989), fra M. Haught, Trustee	Whittle Corporation	08/08/2012	12.39	RITCHIE	257	869	

JAN 7 RECTO & WV Department of Environmental Protection

LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-19	Dougas H. Baker	Whittle Corporation	05/17/2007	13.5	RITCHIE	244	95	
HAUGHT-191	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	130	RITCHIE	257	869	
HAUGHT-192	Ethel M. Batson, Agent for M. A. Edgell, Widow	Glenn L. Haught	05/23/1954	134	RITCHIE	83	313	
HAUGHT-194	Haught Family Trust	Whittle Corporation	05/24/2006	138	RITCHIE	241	350	
HAUGHT-196	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	16.25	RITCHIE	257	869	
HAUGHT-197	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	17.52	RITCHIE	257	869	
HAUGHT-199	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	18.91	RITCHIE	257	869	
HAUGHT-2	Allen A. Ayers and Eva J. Ayers, his wife	Glenn L. Haught	05/31/1956	50	RITCHIE	84	446	
HAUGHT-20	Guy R. and Patsy Baker	Warren R. Haught	07/28/1983	75	RITCHIE	163	346	
HAUGHT-200	Warren R. Haught Et Al	Williams Well Surveys, Inc.	10/01/1975	180	RITCHIE	119	323	
HAUGHT-201	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	20.88	RITCHIE	257	869	
HAUGHT-202	F. R. Kincald Et Al	Warren Haught	09/13/1977	21.28	RITCHIE	124	140	
HAUGHT-203	Haught Family Trust (dated April 17, 1989), Ira M. Haught, trustee	Whittle Corporation	06/09/2017	22.33	RITCHIE	308	541	
HAUGHT-204	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	06/28/2017	24	RITCHIE	257	48	
HAUGHT-205	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	24.375	RITCHIE	257	869	
HAUGHT-206	Haught Family Trust c/o Ira M. Haught	Whittle Corporation	06/06/2011	243.83	RITCHIE	253	1029	
HAUGHT-207	Ira Haught	Petroedge Resources	12/06/2006	20	RITCHIE	243	713	
HAUGHT-208	Haught Family Trust	Whittle Corporation	02/27/2006	20	RITCHIE	240	392	
HAUGHT-209	JP Morgan Chase Bank	Petroedge Resources	02/08/2007	20	RITCHIE	243	720	
HAUGHT-21	Robert M. Bargelah	Warren R. Haught	05/27/1977	45	RITCHIE	123	447	
HAUGHT-210	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	26.2	RITCHIE	257	869	
HAUGHT-211	Haught Family Trust (dated April 17, 1989), Fra M. Haught trustee	Whittle Corporation	08/08/2012	28.72	RITCHIE	257	869	
HAUGHT-212	Haught Family Trust- Ira M. Haught, Trustee	Antero Resources Corporation	02/20/2015	21.417	RITCHIE	285	96	
HAUGHT-213	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	8.88	RITCHIE	257	869	
HAUGHT-214	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	09/26/2012	30	RITCHIE	258	727	
HAUGHT-215	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	30	RITCHIE	257	869	
HAUGHT-216	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	30.375	RITCHIE	257	869	
HAUGHT-217	Marc Charles Cingmars Et Al	Whittle Corporation	07/07/2005	323.2	RITCHIE	239	103	
HAUGHT-218	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	33	RITCHIE	257	869	
HAUGHT-219	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	05/09/2017	33,25	RITCHIE	310	931	
HAUGHT-22	Louise H. Osborne Et Al	Whittle Corporation	02/19/1999	159.78	RITCHIE	227	819	
HAUGHT-221	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	06/09/2017	35	RITCHIE	308	541	
HAUGHT-222	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	35.5	RITCHIE	257	869	
HAUGHT-223	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	36	RITCHIE	257	869	
HAUGHT-224	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	38.675	RITCHIE	257	869	



LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-225	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	06/09/2017	39	RITCHIE	308	541	
HAUGHT-226	Haught Family Trust, Ira M. Haught, Trustee	Whittle Corporation	05/23/2014	40	RITCHIE	273	254	
HAUGHT-227	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	08/08/2012	42	RITCHIE	257	869	
HAUGHT-228	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	06/09/2017	43	RITCHIE	308	550	
HAUGHT-229	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	43	RITCHIE	257	869	
HAUGHT-23	Patricia L. Gault and DeWayne M. Gault	Whittle Corporation	02/15/2002	15	RITCHIE	232	887	
HAUGHT-230	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	44.77	RITCHIE	257	869	
HAUGHT-234	Nellie G. Braden	Warren R. & Eldon J. Haught, dba Glenn L. Haught & Sons	07/09/1976	49.5	RITCHIE	121	517	
HAUGHT-235	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	49,5	RITCHIE	257	869	
HAUGHT-236	Haught Family Trust	Whittle Corporation	06/01/2006	50	RITCHIE	241	365	
HAUGHT-237	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	50	RITCHIE	257	869	
HAUGHT-238	G.Y. Rexroad Et Al	The Carter Oil Company	07/25/1907	139	RITCHIE	23	293	
HAUGHT-239	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	55,5	RITCHIE	257	869	
HAUGHT-24	Nannie Batson, Tessie Lesson and Clee Lesson, her husband	Derrick Drilling Co.	06/05/1978	94.5	RITCHIE	125	430	
HAUGHT-240	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	55.5	RITCHIE	257	869	
HAUGHT-241	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	55.6	RITCHIE	257	869	
HAUGHT-242	Thomas L. Mason, Jr.	Warren R. Haught	07/14/1980	55.7	RITCHIE	132	27	
HAUGHT-243	Haught Family Trust	Whittle Corporation	03/16/2005	56	RITCHIE	237	686	
HAUGHT-244	Marvin G. Haught, Robert Bruce Haught and Karen M. Fritz	Whittle Corporation	03/25/2005	56	RITCHIE	237	763	
HAUGHT-245	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	6.5	RITCHIE	257	869	
HAUGHT-248	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	63.12	RITCHIE	257	869	
HAUGHT-249	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Top Drilling Corporation	06/28/2012	63.55	RITCHIE	257	53	
HAUGHT-25	Margaret C. Beard and John H. Beard	Haught Oil Producing Corp.	02/12/1985	15.5	RITCHIE	178	501	
HAUGHT-250	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	06/09/2017	70,75	RITCHIE	308	541	
HAUGHT-251	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	73.5	RITCHIE	257	869	
HAUGHT-252	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	76.25	RITCHIE	257	869	
HAUGHT-253	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	8.25	RITCHIE	257	869	
HAUGHT-254	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	06/09/2017	8.5	RITCHIE	310	931	
HAUGHT-255	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	8.76	RITCHIE	257	869	
HAUGHT-256	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	8.88	RITCHIE	257	869	_
HAUGHT-258	H. H. Smith and Gertrude Smith, his wife	Glenn L. Haught	12/02/1960	84	RITCHIE	93	43	
HAUGHT-259	H. H. Smith and Gertrude Smith, his wife	Glenn L. Haught	12/02/1960	84	RITCHIE	93	43	
HAUGHT-26	John H. Beard	Warren R. Haught	02/12/1982	15.5	RITCHIE	141	862	
HAUGHT-260	Haught Family Trust (dated April 17, 1989), Ira M. Haught trustee	Whittle Corporation	08/08/2012	84.55	RITCHIE	257	869	
HAUGHT-261	H. H. Smith and Gertrude Smith, his wife	Cecil Speck	5/16/1963	136.5	RITCHIE	99	426	



WV Department of Environmental Protection

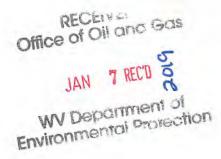
LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-262	Barbara J. Miller & Roger D. Freshour	710 Corporation	10/20/2006	126	RITCHIE	242	514	
HAUGHT-263	Rachel Bryan Et Al	H. E. Pollock	03/19/1923	18.5	RITCHIE	49	148	
HAUGHT-264	William T. Kearns Et Al	H. E. Pollock	09/01/1923	18.5	RITCHIE	49	151	
HAUGHT-265	George A. Arner Et Al	H. E. Pollock	09/01/1923	18.5	RITCHIE	49	153	
HAUGHT-266	Jefferson Hoover and A.B. Hoover	The Carter Oil Company	07/25/1907	90 -	RITCHIE	23	291	
HAUGHT-267	L. A. Hoover and Wm Hoover, her husband	J. W. Marshall	2/21/1898	50	RITCHIE	9	393	
HAUGHT-268	Joyce Ann Howard	Warren R. Haught	07/19/1977	17	RITCHIE	123	638	
HAUGHT-269	James M., Howard and Helen Howard, his wife and Sarah C. Howard	Warren R. Haught	07/01/1977	86.S	RITCHIE	123	640	
HAUGHT-27	Mary B. Dowlding and William F. S. Dowlding, her husband	Warren R. Haught	02/12/1982	15.5	RITCHIE	141	865	
HAUGHT-270	Hoy Gary and Faw Gary	Warren R. Haught	07/20/1978	92	RITCHIE	125	691	
HAUGHT-271	Homer S. Morris, Jr. and Freda Morris, his wife	Glenn L., Warren R. and Eldon J. Haught	08/01/1967	205	RITCHIE	110	6	
HAUGHT-272	Hayward W. Hudkins, a married man acting in his own right	Whittle Corporation	01/29/2011	50	RITCHIE	252	932	
HAUGHT-273	Hayward Hudkins, a married man acting in his own right	Whittle Corporation	01/29/2011	88.2	RITCHIE	252	938	
HAUGHT-274	Haught Family Trust c/o Ira M. Haught	Whittle Corporation	02/29/2012	88.2	RITCHIE	255	600	
HAUGHT-275	Robert R. Jones	Whittle Corporation	07/23/2011	83	RITCHIE	254	339	
HAUGHT-276	Annabelle Hooper	Whittle Corporation	01/29/2011	88.2	RITCHIE	252	996	
HAUGHT-277	Clinton Eugene Sheets, a married man acting in his own right	Whittle Corporation	02/10/2011	88.2	RITCHIE	252	1006	
HAUGHT-278	Clarence Udell Sheets	Whittle Corporation	01/29/2011	88.2	RITCHIE	252	1001	
HAUGHT-279	Lyda R. Casto	Whittle Corporation	03/24/2012	88.2	RITCHIE	256	352	
HAUGHT-28	Helen B. Earle and James G. Earle	Haught Incorporated	02/12/1982	15.5	RITCHIE	141	634	
HAUGHT-280	Randy E. Huff Et Al	710 Corporation	10/16/2003	60	RITCHIE	235	162	
HAUGHT-281	D. E. Huff Et Al	Hope Natural Gas Company	07/15/1952	60	RITCHIE	81	141	
HAUGHT-283	John H. Hyman	W. H. Bickel	05/20/1932	234	RITCHIE	59	514	
HAUGHT-284	Ira M. Haught	Whittle Corporation	03/20/2014	168.44	RITCHIE	271	379	
HAUGHT-285	Clifford Donovan Jobes	Whittle Corporation	03/21/2014	169.75	RITCHIE	271	623	
HAUGHT-286	Patricia A. Godbey	Whittle Corporation	04/01/2014	168.44	RITCHIE	272	100	
HAUGHT-287	Beverly Dlanne Crysler	Whittle Corporation	04/14/2014	168.44	RITCHIE	272	88	
HAUGHT-288	Dwight T. Goff and Dedra Griffith Goff, his wife	Whittle Corporation	04/14/2014	168.44	RITCHIE	272	94	
HAUGHT-289	A. J. Ireland Et Al	W. H. Bickel	02/22/1933	184	RITCHIE	60	319	
HAUGHT-29	George Beard and Pauline Beard	Warren R. Haught	08/11/1981	15.5	RITCHIE	138	375	
HAUGHT-290	Jessie Elder Et Al	Warren R. Haught	11/02/1978	55.2	RITCHIE	126	290	
HAUGHT-291	Charles J. and Eleanor Hatfield, his wife	Glenn L. Haught	02/11/1956	58.3	RITCHIE	84	440	
HAUGHT-294	Ralph Jett and Eva Jett, husband and wife	W. R. Development Co., Inc.	08/21/1986	148	RITCHIE	191	378	
HAUGHT-3	Rachel M. Lemon Et Al	Wm. M. Cox	08/25/1911	270	RITCHIE	29	60	
HAUGHT-30	Belle Pritchard, a widow	Ritchie A. Ireland	02/14/1947	415	RITCHIE	77	19	

Office of Oil and Gas



WV Department of Environmental Protection

LeasoNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-301	Lawrence S. Keith and Rose Keith, his wife	Warren R. and Barry D. Haught	06/05/1978	62.25	RITCHIE	125	344	
HAUGHT-302	Goldie Kester	Warren R. Haught	06/15/1979	45	RITCHIE	127	361	
HAUGHT-31	Belle Pritchard Et Al	Ritchie A. Ireland	01/06/1950	415	RITCHIE	79	108	
HAUGHT-311	Paul S. Lawrence Et Al	Glenn L. Haught & Sons	02/11/1963	61.25	RITCHIE	98	429	
HAUGHT-312	Lettle Elder, widow	Warren R. Haught	11/08/1978	46.2	RITCHIE	126	300	
HAUGHT-313	Lettie Elder	Warren R. Haught	08/14/1978	66	RITCHIE	125	752	
HAUGHT-314	L. W. Davis and his wife, Delta N. Davis	Warren R. Haught	07/08/1978	57	RITCHIE	125	498	
HAUGHT-315	Luvina Effiott Et Al	Warren R. Haught and Eldon J. Haught DBA Glenn L. Haught & Sons	06/22/1976	28	RITCHIE	121	592	
HAUGHT-316	Amos Scott Et Al	Warren R. Haught	05/07/1976	50	RITCHIE	121	394	
HAUGHT-317	Virginia A. Lamp Et Al	Warner-Quinlan Company	12/27/1920	70.5	RITCHIE	44	319	
HAUGHT-318	Mark A. Lamp, a married man acting in his own right	Whittle Corporation	03/29/2006	169	RITCHIE	241	102	
HAUGHT-319	Lela Atkins	Whittle Corporation	12/22/2008	169	RITCHIE	248	755	
HAUGHT-320	Bernard F. Starr and James E. Starr	Whittle Corporation	01/26/2006	169	RITCHIE	240	114	
HAUGHT-321	Emogene Carpenter, Power of Attorney for Wilma I. Lamp Bircher	Whittle Corporation	02/23/2006	169	RITCHIE	240	256	
HAUGHT-322	Deborah A. Schafer, Power of Attorney for Thelma Lamp	Whittle Corporation	02/24/2006	169	RITCHIE	240	261	
HAUGHT-323	Larry K. Lamp, single	Whittle Corporation	02/24/2006	169	RITCHIE	240	266	
HAUGHT-324	Haught Family Trust	Whittle Corporation	03/15/2006	169	RITCHIE	240	377	
HAUGHT-325	Lela M. Atkins, a married woman acting in her own right	Whittle Corporation	04/11/2006	169	RITCHIE	241	173	
HAUGHT-326	Sharlene Pittman, widow	Whittle Corporation	04/12/2006	169	RITCHIE	241	13	
HAUGHT-327	Betty Adams, a married woman acting in her own right	Whittle Corporation	04/12/2006	169	RITCHIE	241	18	
HAUGHT-328	Martha Morris, a married woman acting in her own right	Whittle Corporation	04/12/2006	169	RITCHIE	241	23	
HAUGHT-329	William A. Pittman, a married man acting in his own right	Whittle Corporation	04/12/2006	169	RITCHIE	241	178	
HAUGHT-33	Eva L. Black	Dale Wolfe	11/26/1980	3	RITCHIE	133	310	
HAUGHT-330	Marvin L. Cunningham	Whittle Corporation	12/22/2008	169	RITCHIE	247	898	
HAUGHT-331	Harle G. Layfield and Linda D. Layfield, his wife	Warren R. Haught	08/25/1981	16	RITCHIE	138	148	
HAUGHT-332	A. J. Layfield Et Al	Dale Wolfe	03/20/1976	85	RITCHIE	120	42	
HAUGHT-333	J. B. Lemon, et al	Southern Oil Company	02/16/1924	616	RITCHIE	50	63	
HAUGHT-334	D. C. Valentine Et Al	Southern Oil Company	06/28/1924	616	RITCHIE	50	74	
HAUGHT-335	George Pribble	Southern Oil Co.	06/09/1925	616	RITCHIE	51	9	
HAUGHT-336	Lenore Smith, a married woman acting in her own right	Whittle Corporation	11/12/2008	91.85	RITCHIE	247	685	
HAUGHT-337	Dr. Terry L. Elliott	Whittle Corporation	12/08/2008	87.85	RITCHIE	247	903	- 5,5,000
HAUGHT-338	Judith A. Shannon	Whittle Corporation	12/05/2008	87.85	RITCHIE	247	854	
HAUGHT-339	Louie G. Elliott, a married man acting in his own right	Whittle Corporation	11/21/2008	87.85	RITCHIE	247	753	
HAUGHT-34	Haught Family Trust	Whittle Corporation	06/15/2017	168.25	RITCHIE	308	766	
HAUGHT-340	Marie N. Whitmore	Whittle Corporation	12/09/2008	87.85	RITCHIE	247	908	



LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acros	County	Book Number	Page Number	Instrument Numbe
HAUGHT-341	Ray Elliott, a married man acting in his own right	Whittle Corporation	11/25/2008	87.85	RITCHIE	247	758	
HAUGHT-342	Vonda Carpenter, widow	Whittle Corporation	12/02/2008	87.85	RITCHIE	247	859	
HAUGHT-343	Lelia C. Locke, widow and Pearl Cunningham, widow	Emery D. Locke	01/18/1957	39	RITCHIE	86	435	
HAUGHT-344	Louise H. Osborne Et Al	710 Corporation	05/12/2004	112.9	RITCHIE	235	495	
HAUGHT-345	Haught Family Trust	Whittle Corporation	07/11/2017	72.23	RITCHIE	310	445	
HAUGHT-346	Shirley Tibbs and Alma Tibbs, his wife	Philip Lemon	05/06/1957	67	RITCHIE	85	531	
HAUGHT-347	L. Bassell Maxwell, et al	L. E. Haught and Glenn L. Haught	03/02/1956	57.76875	RITCHIE	97	372	
HAUGHT-348	Mansfield Haught and Icy V. Haught, husband and wife	F. A. Deem	05/28/1930	90	RITCHIE	58	325	
HAUGHT-349	Mansfield Haught and Icie Viola Haught, his wife	Glenn L. Haught	05/27/1947	50	RITCHIE	77	153	
HAUGHT-35	Warren R. Haught and Lenna G. Haught	710 Corporation	08/04/1988	50	RITCHIE	200	754	
HAUGHT-350	N. M. Welch et ux	Phillip Lemon	05/15/1961	69	RITCHIE	94	31	
HAUGHT-354	Angel Hubbard	Ritchie Petroleum Corporation	01/10/2011	65	RITCHIE	252	1033	
HAUGHT-355	Martha Smith Heirs - Gladys M. Zinn, Atty	Glenn L. Haught	12/06/1960	66.25	RITCHIE	93	209	
HAUGHT-356	C. Leonard Hawkins	Warren R. Haught	03/21/1979	50	RITCHIE	126	45	
HAUGHT-357	Carrie A. Lee	Warren R. Haught	08/31/1978	50	RITCHIE	126	47	
HAUGHT-358	W. Lyle Jones, Trustee of Martin Brothers Company	Warren R. Haught	08/22/1978	50	RITCHIE	126	49	
HAUGHT-359	Warren R. Haught and Lenna G. Haught, his wife	Warren R. Haught	03/22/1979	50	RITCHIE	126	744	
HAUGHT-36	Evelyn McCoy Et Al	Glenn L. Haught	09/02/1962	30	RITCHIE	97	319	
HAUGHT-360	C. Legnard Hawkins and Hazel Hawkins, his wife	Warren R. Haught	03/21/1979	50	RITCHIE	126	772	
HAUGHT-361	James W. Elliott and Wanda Jean Elliott (Mary C. Elliott Heirs)	Warren R. Haught	12/03/1975	70	RITCHIE	126	379	
HAUGHT-362	Mary C. Elliott Heirs	Warren R. Haught	12/03/1975	70	RITCHIE	126	357	
HAUGHT-363	Velma Collins and C. H. Collins, her husband	Warren R. Haught	12/03/1975	70	RITCHIE	127	97	
HAUGHT-364	Mary C. Elliott Heirs	Warren R. Haught	12/03/1975	70	RITCHIE	126	359	
HAUGHT-365	Edna B. Oldaker Et Al	Warren R. Haught	07/19/1978	70	RITCHIE	126	377	
HAUGHT-366	Mary C. Elliott Heirs	Warren R. Haught	12/03/1975	70	RITCHIE	126	381	
HAUGHT-367	Bonnie C. Keister (Mary C. Elliott Heirs)	Warren R. Haught	12/03/1975	70	RITCHIE	126	383	
HAUGHT-368	Robert Elliott Et Al	Warren R. Haught	12/03/1975	70	RITCHIE	126	385	
HAUGHT-369	L. Bassell Maxwell, et al (Maxwell Heirs) (several parties listed)	P. O. Burgy	11/18/1954	161.625	RITCHIE	83	280	
HAUGHT-37	Sharon Hazelett Border Et Al	Whittle Corporation	01/18/2007	296.53	RITCHIE	243	52	
HAUGHT-370	Paul McCoy and Evelyn McCoy	Glenn L. Haught	04/12/1951	56	RITCHIE	80	399	
HAUGHT-371	Mary A. McFadden Hrs. Et Al	Warren R. Haught	07/20/1979	100	RITCHIE	128	39	
HAUGHT-372	Margaret Lowther Est.	Warren R. Haught	04/09/1979	100	RITCHIE	127	93	
HAUGHT-373	Warren R. Haught and Lenna G. Haught, his wife	Warren R. Haught	03/22/1979	100	RITCHIE	126	746	
HAUGHT-374	Mary Gardner signing as executor for Mary A. McFadden	Warren R. Haught	08/24/1978	100	RITCHIE	126	53	
HAUGHT-375	Allen C. Cunningham	Warren R. Haught	07/25/1978	100	RITCHIE	125	766	100000

Office of Oil and Gas



WV Department of Environmental Protection

LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-376	Lillian R. Price and Evert Price, her husband	Warren R. Haught	05/28/1977	100	RITCHIE	124	277	
HAUGHT-378	Larry McHenry and Tammy McHenry, his wife	Whittle Corporation	05/15/2003	9.0625	RITCHIE	234	84	18
HAUGHT-379	Ira M. Haught	Whittle Corporation	12/29/2010	41.934	RITCHIE	252	759	
HAUGHT-38	B. P. Ayers and Avia Ayers	Glenn L. Haught	02/20/1954	58.6	RITCHIE	83	37	
HAUGHT-380	Amy C. Haught	Whittle Corporation	12/29/2010	41.934	RITCHIE	253	31	
HAUGHT-383	Blaine M. Miller Et Al	Glenn L. Haught and Sons	04/14/1977	77	RITCHIE	123	227	
HAUGHT-384	Harry E. Moats and Irene J. Moats, husband and wife	Warren R. Haught	03/16/1978	14	RITCHIE	125	17	
HAUGHT-385	J. W. Grimm Et Al	W. H. Satterfield	09/27/1919	109.5	RITCHIE	47	157	
HAUGHT-386	Samuel C. Hammett, Sherri L. Hammett and Robert E. Hammett	Petroedge Resources (WV) LLC	11/22/2005	109.5	RITCHIE	239	732	
HAUGHT-387	Janet Smith	Petroedge Resources (WV) LLC	04/03/2006	109	RITCHIE	241	117	
HAUGHT-388	Janis Marshall	Petroedge Resources (WV) LLC	04/03/2006	109	RITCHIE	241	126	
HAUGHT-389	Robert L. Bills Et Al	Warren R. Haught	05/25/1978	119	RITCHIE	125	557	
HAUGHT-39	H. L. Brissey, single	J. W. Cushing	06/21/1976	90	RITCHIE	122	757	
HAUGHT-390	Dessie Grimm Heirs	Warren R. Haught	07/29/1978	119	RITCHIE	126	288	
HAUGHT-391	Dessie Grimm Heirs	Warren R. Haught	07/24/1978	119	RITCHIE	126	298	
HAUGHT-392	Dessie Grimm Heirs	Warren R. Haught	08/16/1978	119	RITCHIE	126	296	
HAUGHT-393	Dessie Grimm Heirs Et Al	Warren R. Haught	12/16/1980	119	RITCHIE	133	783	
HAUGHT-394	Robert L. Bills Et Al	Warren R. Haught	12/16/1980	119	RITCHIE	134	291	
HAUGHT-395	Dessie Grimm Heirs, Robert D. Grimm and Arlene A. Grimm, his wife	Warren R. Haught	02/27/1981	119	RITCHIE	134	690	
HAUGHT-396	Dessle Grimm Heirs, May Couch and Melvin J. Couch, her husband	Warren R. Haught	12/16/1980	119	RITCHIE	133	562	
HAUGHT-397	Robert L. Bills Et Al	Warren R. Haught	05/29/1980	119	RITCHIE	131	407	
HAUGHT-398	Dessie Grimm Heirs, Mary Couch and Melvin J. Couch, her husband	Warren R. Haught	07/23/1980	119	RITCHIE	132	364	
HAUGHT-399	Dessie Grimm Heirs Et Al	Warren R. Haught	07/23/1980	119	RITCHIE	132	481	
HAUGHT-4	Margaret Simmons	Warren R. Haught	01/22/1980	101.5	RITCHIE	130	245	
HAUGHT-40	Haught Family Trust	Whittle Corporation	11/30/2006	66	RITCHIE	246	498	
HAUGHT-400	Dessie Grimm Heirs, Robert D. Grimm (single)	Warren R. Haught	07/23/1980	119	RITCHIE	132	484	
HAUGHT-401	Robert L. Bills Et Al	Warren R. Haught	07/23/1980	119	RITCHIE	132	490	
HAUGHT-402	Warren R. Haught and Lenna G. Haught, his wife	TIG Corporation	12/11/1986	32.25	RITCHIE	193	70	
HAUGHT-403	Warren R. Haught and Lenna G. Haught, his wife	710 Corporation	08/09/1985	32.25	RITCHIE	182	453	
HAUGHT-404	Clarence W. Mutschelknaus, Sr. and Mary Mutschelknaus, his wife	Whittle Corporation	09/19/2011	199	RITCHIE	255	208	
HAUGHT-405	Haught Family Trust (dated April 17, 1989), Ira M. Haught, Trustee	Whittle Corporation	01/30/2014	199	RITCHIE	270	208	
HAUGHT-406	Clarence W. Mutschelknaus, Sr. and Mary Mutschelknaus, his wife	Whittle Corporation	10/31/2008	199	RITCHIE	247	1087	
HAUGHT-407	Everett Haught Et Al	Warren R. Haught and Eldon J. Haught, dba Glenn L. Haught & Sons	07/15/1976	136	RITCHIE	122	568	
HAUGHT-408	Luvina Elliott Et Al	Warren R. Haught and Eldon J. Haught, dba Glenn L. Haught & Sons	06/22/1976	136	RITCHIE	121	650	
HAUGHT-409	Norma Nottingham Gill Et Al	Petroleum Development Corporation	02/18/1983	47.5	RITCHIE	160	691	

Office of Oil and Gas

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LeaseNumber	Lessor	Lassea	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Numbe
HAUGHT-41	A. Bertram Conaway	Whittle Corporation	07/05/2007	66	RITCHIE	244	984	
HAUGHT-410	Norma Nottingham Gill Et Al	Petroleum Development Corporation	02/18/1983	47.5	RITCHIE	163	75	
HAUGHT-411	Mary E. Nay Et Al	Warren R. Haught	06/26/1979	141.97	RITCHIE	127	377	
HAUGHT-412	Mary E. Nay Et Al	Warren R. Haught	06/26/1979	141.97	RITCHIE	128	77	
HAUGHT-413	Mary E. Nay Et Al	Warren R. Haught	08/17/1979	141.97	RITCHIE	128	178	
HAUGHT-414	David R. Newion, a married man acting on his own right	Whittle Corporation	06/09/2011	165.5	RITCHIE	253	1088	
HAUGHT-415	Elton G. Clevenger, a married man acting on his own right	Whittle Corporation	06/09/2011	165.5	RITCHIE	253	1093	
HAUGHT-416	Loren D. Newton and Sally Newton, his wife	Warren R. Haught	08/28/1978	72.5	RITCHIE	126	742	
HAUGHT-417	C. Leonard Hawkins	Warren R. Haught	09/07/1978	72.5	RITCHIE	126	367	
HAUGHT-418	C. Leonard Hawkins and Hazel Hawkins, his wife	Warren R. Haught	09/07/1978	72.5	RITCHIE	126	763	
HAUGHT-419	Elizabeth J. Fisher	Warren R. Haught	08/09/1978	72.5	RITCHIE	126	371	
HAUGHT-42	Russell J. Bumgardner	Whittle Corporation	07/09/2007	66	RITCHIE	244	1064	
HAUGHT-420	Loren D. Newton	Warren R. Haught	08/28/1978	72.5	RITCHIE	126	375	
HAUGHT-421	Elizabeth Fisher and Elmer Fisher, her husband	Warren R. Haught	08/09/1978	72.5	RITCHIE	126	794	
HAUGHT-422	Mabel N. Null	Warren R. Haught	08/28/1978	72.5	RITCHIE	126	373	
HAUGHT-423	Carrie L. B. Davis and Henry A. Davis, her husband	Warren R. Haught	11/21/1978	72.5	RITCHIE	126	369	
HAUGHT-424	Carrie A. Lee	Warren R. Haught	08/08/1978	72.5	RITCHIE	126	365	
HAUGHT-425	Haught Family Trust	Whittle Corporation	02/27/2006	80	RITCHIE	240	397	1
HAUGHT-426	Ora L. Goff, widow	Warren R. Haught and Eldon J. Haught, dba Glenn L. Haught & Sons	05/05/1977	36	RITCHIE	123	246	
HAUGHT-427	Orla J. Adams, widower	Warren R. Haught	08/28/1978	77	RITCHIE	126	63	
HAUGHT-428	E. May Summers, widow	Glenn L. Haught and Sons	04/14/1977	76	RITCHIE	123	223	
HAUGHT-429	Paul M. Ayers and Madge R. Ayers, his wife	Glenn L. Haught and Sons	04/14/1977	76	RITCHIE	123	82	
HAUGHT-43	Evonne K. Middaugh	Whittle Corporation	06/28/2007	56	RITCHIE	244	994	
HAUGHT-430	Haught Family Trust	Whittle Corporation	06/09/2017	76	RITCHIE	308	546	
HAUGHT-431	James William Coddington and Helen Grace Coddington, wife	J & J Enterprises, Inc.	04/10/1984	33	RITCHIE	170	470	
HAUGHT-432	Warren R. Haught & Lenna G. Haught, husband and wife	Whittle Corporation	09/26/2012	9.84375	RITCHIE	262	478	
HAUGHT-433	L. Bassel Maxwell, et al	Sam T. Mallison	07/01/1952	115.2	RITCHIE	81	215	
HAUGHT-434	L. Bassel Maxwell, et al	Sam T. Mallison	07/01/1952	284.8	RITCHIE	81	215	
HAUGHT-435	T. McFadden Heirs	Dale Wolfe	04/07/1976	92	RITCHIE	122	13	
HAUGHT-436	P. C. Parks Heirs and Wm. McFadden Heirs	Dale Wolfe	04/07/1976	92	RITCHIE	121	202	
HAUGHT-437	Wm. McFadden Heirs	Dale Wolfe	04/07/1976	92	RITCHIE	121	300	
HAUGHT-438	S. H. Parks Et Al	Glenn L. Haught	08/25/1956	85	RITCHIE	85	8	
HAUGHT-439	Kenneth Perine and Patricia Perine, his wife	Warren R. Haught	09/10/1979	29.9	RITCHIE	128	341	
HAUGHT-44	Trisha A. Hendrickson	Whittle Corporation	06/28/2007	66	RITCHIE	244	999	
HAUGHT-440	Kenneth Perine and Patricia Perine, his wife	Warren R. Haught	09/10/1979	33.75	RITCHIE	128	339	

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WV Department of
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LeaseNumber	Lessor	Lossee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-444	Eleanore Phillips a married woman acting in her own right	Whittle Corporation	10/12/2005	50	RITCHIE	239	764	
HAUGHT-445	Michael D. Phillips, a married man acting in his own right	Whittle Corporation	10/17/2005	50	RITCHIE	239	509	
HAUGHT-446	Paul R. Phillips, single	Whittle Corporation	10/05/2005	50	RITCHIE	239	774	
HAUGHT-447	Patricia Mae Simons, widow	Petroedge Resources (WV) LLC	04/24/2006	50	RITCHIE	241	63	
HAUGHT-448	Betty Jane Black, a married woman acting in her own right	Whittle Corporation	10/17/2005	50	RITCHIE	239	514	
HAUGHT-449	Susan Sanders	Whittle Corporation	10/17/2005	50	RITCHIE	239	617	
HAUGHT-45	Steven L. Bumgardner	Whittle Corporation	06/28/2007	66	RITCHIE	244	989	
HAUGHT-450	Sharon Williams, a married woman acting in her own right	Whittle Corporation	10/17/2005	50	RITCHIE	239	519	
HAUGHT-451	Donald Jack Dillworth, a married man acting in his own right	Whittle Corporation	10/13/2005	50	RITCHIE	239	759	
HAUGHT-452	Thomas Virgil Dillworth, Jr.	Whittle Corporation	10/13/2005	50	RITCHIE	239	754	
HAUGHT-453	Donald J. Wolfe, a married man acting in his own right	Whittle Corporation	10/12/2005	50	RITCHIE	239	769	
HAUGHT-454	Darlene Sue Tillack, a married woman acting in her own right	Whittle Corporation	10/17/2005	50	RITCHIE	239	504	
HAUGHT-455	Charles Franklin Powers	Whittle Corporation	10/04/2007	58.75	RITCHIE	245	312	
HAUGHT-456	Mrs. Dorothy M. Rader Et Al	Glenn L. Haught	08/01/1960	134	RITCHIE	92	453	
HAUGHT-458	Elsle Prunty, widow	Warren R. and Barry D. Haught	06/20/1978	53	RITCHIE	125	418	
HAUGHT-459	Edith G. Farris Et Al	Glenn L. Haught, Warren R. Haught, and Eldon Haught, DBA Glenn L. Haught & Sons	06/10/1963	25	RITCHIE	100	453	
HAUGHT-46	Vada Britton Et Al	Warren R. Haught	12/28/1976	82	RITCHIE	123	92	
HAUGHT-460	Ruth E. Johnson Et Al	Warren R. Haught	02/15/1983	25	RITCHIE	155	526	
HAUGHT-461	Frank I. and Pearl E. Allebaugh, his wife	Warren R. Haught	04/05/1983	25	RITCHIE	156	551	
HAUGHT-462	Roxie B. Evans and Harrison Evans, her husband	W. H. Bickel	02/18/1933	40.7375	RITCHIE	60	301	
HAUGHT-463	Ralph Wilson	Haught Inc	11/17/1977	376	RITCHIE	124	324	
HAUGHT-464	Mrs. H. G. Ralguel, widow	Dale Wolfe	06/20/1978	31	RITCHIE	125	812	
HAUGHT-465	Dewey L. Reed and Icle L. Reed	Stonestreet Lands Co	06/30/1976	45.5	RITCHIE	121	322	
HAUGHT-466	W. F. Reger and Clorus A. Reger, his wife	Paul McCoy	04/08/1957	59	RITCHIE	86	169	
HAUGHT-467	Christopher Lee Reger	Whittle Corporation	03/28/2007	44.62	RITCHIE	243	887	
HAUGHT-468	Ashford Rexroad and Virginia Rexroad, his wife	Warren R. and Eldon J. Haught, dba Glenn L. Haught & Sons	10/18/1976	45	RITCHIE	122	72	
HAUGHT-469	Ashford Rexroad Et Al	Warren R. and Eldon J. Haught, dba Glenn L. Haught & Sons	10/18/1976	50.5	RITCHIE	122	74	
HAUGHT-47	Cora Elder, widow	Warren R. Haught	07/27/1978	65.2	RITCHIE	125	769	
HAUGHT-472	Bernard W. Richards and Fredia Richards, his wife	Warren R. Haught	07/15/1979	114	RITCHIE	127	483	
HAUGHT-473	Dorothy M. Riddle Et Al	Gas & Oil, Inc.	05/14/2012	51.75	RITCHIE	256	808	
HAUGHT-474	Henry M. Riddle and Joy E. Riddle, husband and wife	Stephen D. Ward/Gas & Oil, Inc.	08/24/2012	51.75	RITCHIE	258	298	
HAUGHT-475	Junior Riddle and Ruth C. Riddle, his wife	Warren R. Haught & Eldon J. Haught, dba Glenn L. Haught & Sons	10/27/1969	78.5	RITCHIE	113	180	
HAUGHT-476	Junior Riddle Et Al	Arthur L. Nicholson and Kenneth F. Nicholson	09/21/1961	17	RITCHIE	95	103	
HAUGHT-479	Lloyd Weaver and Flora G. Weaver, husband and wife	John L. Shrader and Virgil F. Corbitt	01/29/1947	137	RITCHIE	80	26	
HAUGHT-48	Claude and Clyde Swedley	Allstate Energy Corporation	02/16/1980	86	RITCHIE	130	190	

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	Marie Marie S	EXIIIDIL - A						
LeaseNumber	Lessor E	Lessee	Effective Date	Lease Gross Agres	County	Book Number	Page Number	Instrument Number
HAUGHT-480	Haught Family Trust	Whittle Corporation	03/15/2006	124.5	RITCHIE	240	372	
HAUGHT-481	Jed D. Rollins Et Al	Whittle Corporation	05/19/2006	124.5	RITCHIE	241	344	
HAUGHT-482	T. N. Johnson Et Al	F. A. Deem	11/24/1930	50	RITCHIE	59	29	
HAUGHT-483	G. P. Ryan Heirs OGM	Warren R. Haught	06/12/1978	107	RITCHIE	125	504	
HAUGHT-484	G. P. Ryan Heirs OGM	Warren R. Haught	06/12/1978	107	RITCHIE	125	502	
HAUGHT-485	Spouses of the G. P. Ryan Heirs	Warren R. Haught	05/30/1979	107	RITCHIE	127	384	
HAUGHT-487	Betty L. Semmelman, Attorney-In-Fact	Warren R. Haught	10/18/1977	99.43215	RITCHIE	124	269	
HAUGHT-488	Betty Semmelman and Betty Semmelman, Attorney in Fact	Warren R. Haught	02/07/1981	99.43215	RITCHIE	152	744	
HAUGHT-489	Helen M. White, Agent for Harvey Marsh Estate	Warren R. Haught	12/28/1977	99.43215	RITCHIE	124	456	
HAUGHT-49	Fred V. Wilson Et Al	W. H. Mossor	11/29/1978	120	RITCHIE	126	459	
HAUGHT-490	Betty Semmelman, Attorney in Fact	Warren R. Haught	10/18/1977	100	RITCHIE	124	271	
HAUGHT-491	Betty Semmelman, attorney in fact	Warren R. haught	10/18/1977	102.5	RITCHIE	124	273	
HAUGHT-494	James E. Sheets, a married man acting in his own right	Whittle Corporation	01/18/2006	158.53	RITCHIE	240	99	
HAUGHT-495	Claren D. Sheets, a married man acting in his own right	Whittle Corporation	01/18/2006	158.53	RITCHIE	240	64	
HAUGHT-496	Donald L. Sheets, a married man acting in his own right	Whittle Corporation	01/12/2006	158,53	RITCHIE	239	1013	
HAUGHT-497	Freda Arnold, widow	Whittle Corporation	01/18/2006	158.53	RITCHIE	239	1073	
HAUGHT-498	Martha Montgomery, Power of Attorney for Louanna Hall, widow	Whittle Corporation	01/18/2006	158.53	RITCHIE	240	54	
HAUGHT-499	Rosalie King, widow	Whittle Corporation	01/18/2006	158.53	RITCHIE	240	129	
HAUGHT-5	Warren R. Haught and Lenna C. Haught, his wife	710 Corporation	06/03/1985	113.5	RITCHIE	192	256	
HAUGHT-50	C. F. Wilson Et Al	H. M. Deem	02/04/1961	122	RITCHIE	93	243	
HAUGHT-500	Vivian Cromer, a married woman acting in her own right	Whittle Corporation	01/18/2006	158.53	RITCHIE	240	84	
HAUGHT-502	James P. Hall, et al	Whittle Corporation	07/20/2011	41.36	RITCHIE	254	485	
HAUGHT-503	Rosalle King	ANTERO	07/20/2011	60.13	RITCHIE	275	219	
HAUGHT-504	Judith A. Long, POA for Rosalie King	Whittle Corporation	06/10/2015	41.36	RITCHIE	287	613	
HAUGHT-505	Loraine Sheets, widow, by Nanette Brinkley, her Power of Attorney	Whittle Corporation	05/27/2015	41.36	RITCHIE	287	603	
HAUGHT-506	Donald L. Sheets	Whittle Corporation	07/14/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-507	Donald L. Sheets, a married man acting in his own right	Whittle Corporation	05/09/2015	41.36	RITCHIE	287	588	
HAUGHT-508	Freda Arnold by James P. Hall her Power of Attorney	Whittle Corporation	07/20/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-509	Claren D. Sheets	Whittle Corporation	07/18/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-51	Rachel R. Cain Et Al	H. E. Pollock	02/17/1927	168	RITCHIE	53	283	
HAUGHT-510	Claren D. Sheets	Whittle Corporation	05/12/2015	41.36	RITCHIE	287	593	
HAUGHT-511	Vivian L. Cromer	Whittle Corporation	07/18/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-512	Vivian L. Cromer	Whittle Corporation	05/15/2015	41.36	RITCHIE	287	608	
HAUGHT-513	Stephen V. Hall	Whittle Corporation	07/20/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-514	Theresa D. Uthe	Whittle Corporation	05/14/2015	41.36	RITCHIE	287	618	

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LeaseNumber	Leispe	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-515	Doris Jean Farrah	Whittle Corporation	07/13/2015	41.36	RITCHIE	287	628	
HAUGHT-516	Medeta Treadwell	Whittle Corporation	05/14/2015	41.36	RITCHIE	287	598	
HAUGHT-517	Martha Ann Montgomery	Whittle Corporation	06/08/2015	41.36	RITCHIE	287	623	
HAUGHT-518	William G. Hall	Whittle Corporation	07/17/2015	41.36	RITCHIE	287	583	
HAUGHT-519	Valerie Reed	Whittle Corporation	07/25/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-520	Brenda Hall	Whittle Corporation	07/25/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-521	Julie Cristenson	Whittle Corporation	07/25/2011	41.36	RITCHIE	Unrecorded		
HAUGHT-522	Jessie Sheets, widow; Eugene Sheets and Janet Sheets, his wife	Whittle Corporation	03/16/2005	67.75	RITCHIE	237	712	
HAUGHT-528	Dale Simmons Et Al	John L. Shrader and D. E. Lieving	12/05/1947	18	RITCHIE	77	563	
HAUGHT-529	Dale Simmons Et Al	John L. Shrader and D. E. Lleving	12/05/1947	18	RITCHIE	79	503	
HAUGHT-530	Sarah A. Denning Et Al	G. H. Fox	09/12/1918	50	RITCHIE	42	373	
HAUGHT-532	Lawrence Simmons	Whittle Corporation	11/15/2007	75	RITCHIE	246	124	
HAUGHT-533	D. O. Skinner Et Al	Victor Brannon and L. W. Davis	11/14/1960	11	RITCHIE	93	235	
HAUGHT-537	R. A. Scott Et Al	Phillip Lemon	04/12/1940	70	RITCHIE	70	370	
HAUGHT-54	Elton G, Clevenger	Whittle Corporation	06/09/2011	165.5	RITCHIE	253	1093	
HAUGHT-543	Ronnie Smith	Jonathan Stansberry	12/28/1994	205	RITCHIE	220	699	
HAUGHT-55	David R. Newlon, a married man acting on his own right	Whittle Corporation	06/09/2011	165.5	RITCHIE	253	1088	
HAUGHT-56	Warren R. Haught and Lenna G. Haught	Whittle Corporation	01/18/2016	35	RITCHIE	293	434	
HAUGHT-560	Cline V. Snider and Esther L. Snider	Warren R. Haught and Eldon J. Haught, DBA Glenn L. Haught and Sons	06/24/1976	249	RITCHIE	121	351	
HAUGHT-561	E. B. Smith and Susie Smith	Glenn L. Haught	02/20/1954	239	RITCHIE	82	568	
HAUGHT-562	Ira M. Haught Et Al	Whittle Corporation	12/03/2007	80	RITCHIE	245	660	
HAUGHT-563	Robert Sommerville Et Al	Warren R. Haught	12/01/1977	100	RITCHIE	124	508	
HAUGHT-564	Mrs. Frank Pribble	Warren R. Haught	12/01/1977	100	RITCHIE	125	332	
HAUGHT-566	Zetah Mabel Eddy, widow	Whittle Corporation	10/26/2005	39	RITCHIE	239	427	
HAUGHT-567	L. M. Stanley and Vonda Stanley, his wife	Warren R. Haught	10/19/1978	41.5	RITCHIE	126	243	
HAUGHT-568	E. A. Stephens and S. Stephens	D. Gunsburg	09/03/1900	50	RITCHIE	13	108	
HAUGHT-569	Kenneth A. Stephens and Frances M. Stephens, his wife	Panther Fuel Company	02/20/1982	115	RITCHIE	141	743	
HAUGHT-57	Madge L. Crane	Warren R. Haught	09/01/1979	145.43	RITCHIE	129	466	
HAUGHT-570	Kenneth Stephens Et Al	Pather Fuel Company	04/23/1982	146.75	RITCHIE	149	545	
HAUGHT-571	Charley G. Swadley and Anna Swadley, his wife	Warren R. Haught	01/28/1982	10	RITCHIE	141	108	
HAUGHT-572	Charle W. Swadley, single and Clyde Swadley, single	Stonestreet Lands Co.	06/14/1976	208	RITCHIE	121	171	
HAUGHT-573	Charley G. Swadley and Anna Jane Swadley, his wife	Warren R. Haught	03/19/1980	41,373	RITCHIE	130	627	
HAUGHT-574	Charley G. Swadley and Anna Jane Swadley, his wife	Warren R. Haught	01/30/1979	41.373	RITCHIE	126	648	
HAUGHT-575	Charley G. Swadley and Anna Swadley, his wife	Dale Wolfe	07/12/1976	76	RITCHIE	121	425	
HAUGHT-576	W. W. Tapp and Leona Tapp, his wife	B. W. Peebles	05/20/1903	18	RITCHIE	18	455	



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LeaseNumber	Lessor	Lessoe	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-577	Grover C. Taylor Et Al	G.L. Dudley Jr.	05/20/1950	577	RITCHIE	79	304	
HAUGHT-578	Warren R. Haught and Lenna G. Haught, husband and wife	Whittle Corporation	09/26/2012	9.84375	RITCHIE	262	478	
HAUGHT-579	Donald Eugene Tingler Et Al	710 Corporation	12/02/2004	47	RITCHIE	237	101	
HAUGHT-58	Madge L. Crane, widow	Warren R. Haught	09/01/1979	146.36	RITCHIE	129	466	
HAUGHT-580	St. Luke's United Methodist Church	710 Corporation	12/12/2005	47	RITCHIE	241	87	
HAUGHT-581	A. M. Dearman and Agnes Dearman, his wife	S. O. Prunty	12/09/1924	5	RITCHIE	50	330	
HAUGHT-582	Alma Vinson and Neal Vinson	North Hills Investment Co. Inc.	04/02/1976	63	RITCHIE	120	743	
HAUGHT-583	Alma Vinson and Neal Vinson	North Hills Investment Co. Inc.	04/02/1978	63	RITCHIE	125	63	
HAUGHT-584	The Volcanic Oil and Coal Company of West Virginia	Clifton Oli and Gas Company	05/29/1941	582	RITCHIE	70	489	
HAUGHT-585	Ira M. Haught Et Al	710 Corporation	03/01/2011	96.5	RITCHIE	253	508	
HAUGHT-586	Haught Family Trust	Whittle Corporation	08/17/2017	54	RITCHIE	310	936	
HAUGHT-587	Ira M. Haught Et Al	710 Corporation	03/01/2011	96.5	RITCHIE	253	508	
HAUGHT-588	Ralph J. Gibson	C. B. Smith	11/21/1955	125	RITCHIE	84	335	
HAUGHT-589	Wayne C. Sommerville	Whittle Corporation	11/05/2012	33.16	RITCHIE	259	495	
HAUGHT-59	Teresa D. Townsend Et Al	Whittle Corporation	11/04/2009	68.2	RITCHIE	249	980	
HAUGHT-590	Wayne C. Sommerville	Whittle Corporation	11/05/2012	94	RITCHIE	259	499	
HAUGHT-591	Wayne C. Sommerville, a married man acting in his own right	Whittle Corporation	10/05/2007	94	RITCHIE	245	317	
HAUGHT-594	Minter D. Waller, a married man acting in his own right	Whittle Corporation	11/16/2005	25	RITCHIE	239	622	
HAUGHT-595	Minter D. Waller	Whittle Corporation	11/09/2012	25	RITCHIE	260	545	
HAUGHT-596	Nellie Garvin, Widow	Glen B. Keller	01/07/1967	185	RITCHIE	108	548	
HAUGHT-597	Elton A. and Hortense C. Snyder	Warren R. and Barry D. Haught	08/19/1977	148	RITCHIE	123	716	
HAUGHT-598	Noel Watson and Vera Watson, his wife	E. S. Gilmore	02/06/1950	150	RITCHIE	79	550	
HAUGHT-6	Allen A. Ayers and Eva J. Ayers, his wife	Glenn L. Haught	03/08/1954	52	RITCHIE	83	309	
HAUGHT-600	Mary Agnes Elder (widow)	Warren R. Haught	08/06/1979	75	RITCHIE	128	162	
HAUGHT-601	Błanche Wedekamm	Warren R. Haught	07/29/1977	30.1	RITCHIE	123	718	
HAUGHT-602	Joyce K. Burrows Et Al	Whittle Corporation	03/09/2006	150	RITCHIE	240	418	
HAUGHT-603	Joyce K. Burrows Et Al	Whittle Corporation	03/09/2006	150	RITCHIE	240	418	
HAUGHT-604	Mary M. Welch (widow) and Belva Welch (widow)	Warren R. Haught	05/17/1979	125	RITCHIE	127	199	
HAUGHT-605	C. A. Welch and Alice Welch, wife	C. E. Sarber	02/22/1926	125	RITCHIE	53	515	
HAUGHT-606	Mace Welch Hrs Et Al	Philip Lemon	08/15/1960	105	RITCHIE	92	211	
HAUGHT-607	8. F. Welch and Mae E. Welch, husband and wife	John L. Shrader and Virgil F. Corbitt	03/13/1947	51	RITCHIE	76	525	
HAUGHT-612	The Mable H. Wiant heirs (Mary L. Davis and William Davis)	Dale Wolfe	10/15/1980	82.5	RITCHIE	132	767	
HAUGHT-613	Frank Dayton Et Al	Ted B. Law Enterprises	05/25/1978	140	RITCHIE	126	116	
HAUGHT-614	Edwin Williams	Whittle Corporation	11/11/2000	6.88	RITCHIE	230	296	
HAUGHT-615	Edwin G. Williams, single	710 Corporation	12/27/2004	70	RITCHIE	237	110	

JAN 7 RECTI Department of Imental Protection

LeaseNumber	Lessor	Lossee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-616	C. F. Wilson and Bessie Irene Wilson, his wife	Glenn L. Haught & Sons	02/26/1962	20	RITCHIE	96	3	and the contract of the contra
HAUGHT-617	Grace Wilson and S. F. Wilson deceased	Philip Wilson	11/04/1960	73	RITCHIE	94	251	
HAUGHT-618	Emily D. Wilson Et Al	Earl Hardman	11/10/1958	66	RITCHIE	89	113	
HAUGHT-619	I. R. Wilson and L. C. Wilson his wife	J, W. Marshall	01/31/1903	48	RITCHIE	18	234	
HAUGHT-620	Alvin Wince and Lovania Wince his wife	J. W. Marshall	01/10/1901	107	RITCHIE	18	226	
HAUGHT-621	E. C. Parks	Ira Haught and Azra Haught	02/23/1918	150	RITCHIE	39	536	
HAUGHT-622	P. C. Parks Et Al	Glenn L. Haught	11/20/1943	150	RITCHIE	74	547	
HAUGHT-7	Allen A. Ayers and Eva J. Ayers, his wife	Glenn L. Haught	03/08/1954	51	RITCHIE	83	311	
HAUGHT-70	Darrel V. Cunningham and Dora M. Cunningham	Warren R. Haught and Eldon J. Haught, DBA Glenn L. Haught & Sons	01/24/1975	128	RITCHIE	118	667	
HAUGHT-71	Denver L. Goff and Belva L. Goff, his wife	Warren R. & Eldon J. Haught, dba Glenn L. Haught & Sons	06/21/1976	155	RITCHIE	121	181	
HAUGHT-72	Denver L. Goff and Belva L. Goff, his wife	Warren R. Haught	06/21/1977	155	RITCHIE	124	524	
HAUGHT-73	John D. Law and Rita LawDale Law and Wilma Law	Warren R. Haught	03/27/1979	96.25	RITCHIE	127	85	
HAUGHT-74	James D. Law Et Al	H. M. Deem	09/17/1974	185	RITCHIE	118	529	
HAUGHT-76	Dale Wolfe and Ruby Wolfe, his wife	Warren R. Haught	01/27/1982	44	RITCHIE	141	105	
HAUGHT-77	Robert M. Sigler Et Al	Dale Wolfe	08/16/1978	44	RITCHIE	126	133	
HAUGHT-78	Dale Wolfe and Ruby Wolfe, his wife	Glenn L. Haught	01/26/1976	44	RITCHIE	120	52	
HAUGHT-79	Robert M. Sigler Et Al	Dale Wolfe	08/16/1978	44	RITCHIE	125	787	
HAUGHT-8	Allen A. Ayers and Eva J. Ayers, his wife	Glenn L. Haught	03/08/1954	51	RITCHIE	83	311	
HAUGHT-80	David A. DeMatteo and Tracy L. DeMatteo, his wife	Haught Energy Corporation	05/07/2013	61.23	RITCHIE	265	628	
HAUGHT-81	James H. Davidson	Geo, H. Ahrens	12/18/1892	135	RITCHIE	3	21	
HAUGHT-82	Hermoine G. Davis, widow	Ed Morris	09/03/1962	26	RITCHIE	97	521	
HAUGHT-83	Sue W. Davis Et Al	Warren R. Haught	03/20/1981	75	RITCHIE	136	352	V
HAUGHT-84	Haught Family Trust, Ira M. Haught as Trustee	Whittle Corporation	08/08/2012	44.25	RITCHIE	257	869	
HAUGHT-85	William C. Smith	Whittle Corporation	10/02/2012	44.25	RITCHIE	259	254	
HAUGHT-86	Otis P. Swab Et Al	Walter C. Crane, C. G. Lowther and Hayward Summers, dba Vesta Fuel Company	07/29/1960	326.25	RITCHIE	92	147	
HAUGHT-87	Otis P. Swab Et Al	Walter C. Crane, C. G. Lowther and Hayward Summers, dba Vesta Fuel Company	12/21/1959	326.25	RITCHIE	91	73	
HAUGHT-88	Otis P. Swab Et Al	Walter C. Crane, C. G. Lowther and Hayward Summers, dba Vesta Fuel Company	12/21/1959	326.25	RITCHIE	91	75	
HAUGHT-89	Alberta Radcliffe	Vearl Summers	11/12/1976	100	RITCHIE	122	264	
HAUGHT-90	Louis Sikora and Joseph Sikora	Vearl Summers	11/12/1976	100	RITCHIE	122	266	
HAUGHT-91	J. F. Deem and Mary C. Deem, his wife	Ira Haught	12/13/1918	87	RITCHIE	42	3	
HAUGHT-92	Edwin Lee Deem	Whittle Corporation	07/25/2011	92.13	RITCHIE	255	624	
HAUGHT-160	J. F. Deem Et Al	Warren R. Haught		147	RITCHIE	124	804	
HAUGHT-161	Gus Bee and Abbie Bee, his wife	Warren R. Haught		147	RITCHIE	124	806	
HAUGHT-377	Helen M. Wilson Et Al	J. F. Deem	05/22/1936	340	RITCHIE	65	45	
HAUGHT-470	Richard Fox	Whittle Corporation	08/31/2007	97.267	RITCHIE	245	114	

HG ENERGY LLC 5260 DUPONT RD PARKERSBURG, WV 26101-7719

LeaseNumber	Lessor	Lessee	Effective Date	Lease Gross Acres	County	Book Number	Page Number	Instrument Number
HAUGHT-471	Richard Fox	Whittle Corporation	12/23/2013	97.267	RITCHIE	271	376	
HAUGHT-16	Bradley F. Davis and his wife Doris L. Davis	Warren R. Haught	07/11/1978	70	RITCHIE	125	631	
HAUGHT-17	Bradley F. Davis Et Al	710 corporation	01/15/1991	70	RITCHIE	209	375	
HAUGHT-18	Bradley Davis Et Al	HAH Petroleum	03/03/1993	70	RITCHIE	215	258	



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August 21, 2018

Laura Adkins WV DEP Division of Oil & Gas 601 57th Street Charleston, WV 25304

RE:

Drilling Under Roads – Goodnight 1402 N-3H

Murphy District, Ritchie County

West Virginia

Dear Ms. Adkins:

HG Energy II Appalachia, LLC, has the right to drill, stimulate and produce wells that are drilled under the County and State Roads as designated on the plats.

Should you have any questions or desire further information, please contact me at dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

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SEP 1 2 2018

YA/ Department of Elimionmental Protection

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

Date of Notic		API No. 47						
		Op	erator's	Well No. Good	Inight 1402 N-3H			
		W	ell Pad N	ame: Goodnig	tht 1402			
Notice has l	been given:							
	ne provisions in West Virginia Code (§ 22-6A, the Operator has provide	d the req	uired parties v	vith the Notice Forms listed			
	tract of land as follows:	2	.•	100550.0				
State:	West Virginia		sting:	492550.3				
County:	Ritchie		orthing:	4324574.1				
District:	Murphy Smithville WV 7.5'	Public Road Access: Generally used farm		SR 47 Kenneth Paul Goodnight				
Quadrangle: Watershed:		Generally used tarin	name.	Reilletti Faul Go	ouriigiit			
watersneu:	South Fork Hughes River							
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and seed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall thave been completed by the applicant	bed in subdivisions (1), (2) and ection sixteen of this article; (ii) the arvey pursuant to subsection (a), of this article were waived in wri- ender proof of and certify to the s	(4), substat the received times to the section to t	ection (b), sec quirement was en of this arti the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West			
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY		Notice Co	ertification	OOG OFFICE USE ONLY			
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO			☐ RECEIVED/ NOT REQUIRED			
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or □ NO PLAT SURVEY	WAS CO	ONDUCTED	☐ RECEIVED			
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAWAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFAC	CE OWNER				
■ 4. NO	TICE OF PLANNED OPERATION	_ RECEI	EIVED		☐ RECEIVED			
■ 5. PUF	BLIC NOTICE	Office of Oil		:	☐ RECEIVED			
■ 6. NO	TICE OF APPLICATION	SEP 1 2 2018			☐ RECEIVED			
		WV Depart Environmenta	ano el l Protecti	on				

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:

 Well Operator:
 HG Energy II Appalachia, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

 Telephone:
 304-420-1119
 Email:
 dwhite@hgenergyllc.com



Subscribed and sworn before me this 4th day of September, 2018

Coroll A. Road Notary Public

My Commission Expires 7 31 2022

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

SEP 1 2 2018

WW-6A (9-13)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF APPLICATION}}$

Notice	Time Requirei	nent: notice shall be provi	ded no later th	an the filing date of permit application.	
Date of	f Notice: <u>8/24/18</u> of:	Date Permit Applica	tion Filed: 8/3	1/18	
✓ PI	ERMIT FOR A	NY 🗖 CERTIFI	CATE OF AP	PROVAL FOR THE	
	ELL WORK	•		AN IMPOUNDMENT OR PIT	
**	ELL WORK	CONSTI	COCTION OF	AIV INIT OUTDINENT ORTH	
Deliver	y method purs	suant to West Virginia Co	ode § 22-6A-1	0(b)	
☐ PE	ERSONAL	☐ REGISTERED	✓ METH	OD OF DELIVERY THAT REQUIRES A	
S	ERVICE	MAIL	RECE	EIPT OR SIGNATURE CONFIRMATION	
the surficient oil and a describe operator more consultation well were impoundable as well were provide propose subsective records provision Code R.	ace of the tract of gas leasehold be ged in the erosion or or lessee, in the gal seams; (4) The rk, if the surface dment or pit as owner well, sprin water for consumed well work action (b) of this serion of this article. § 35-8-5.7.a resummer or the surface of the sheriff resum of this article.	in which the well is or is pro- ing developed by the propos- and sediment control plans as event the tract of land on va- te event the tract of land on va- te event is to be used for the pa- described in section nine of g or water supply source loc mption by humans or dome- vity is to take place. (c)(1) I ction hold interests in the la- quired to be maintained pur- to the contrary, notice to a la- equires, in part, that the open	oposed to be located well work, is submitted pursue which the well purface tract or tracement, constitution article; (5) exacted within one stic animals; and from the application when the suant to section in holder is no reator shall also passed within one or the application and the application holder is no reator shall also passed within the section in the application holder is no reator shall also passed within the application and the application holder is no reator shall also passed within the application and the application and the application articles are applications.	the well plat to each of the following persons: (1) The cated; (2) The owners of record of the surface tract of if the surface tract is to be used for roads or other large tract to subsection (c), section seven of this article; (3 proposed to be drilled is located [sic] is known to be tracts overlying the oil and gas leasehold being development, enlargement, alteration, repair, removal or at Any surface owner or water purveyor who is known to thousand five hundred feet of the center of the well defect of the operator of any natural gas storage field we the tenants in common or other co-owners of interest and may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) at notice to a landowner, unless the lien holder is the provide the Well Site Safety Plan ("WSSP") to the signal provided in section 15 of this rule.	or tracts overlying the and disturbance as 3) The coal owner, underlain by one or oped by the proposed abandonment of any to the applicant to l pad which is used to within which the as described in on described in the Notwithstanding any landowner. W. Va.
• •			S Plan Notice	e	
☐ SURI Name:	FACE OWNER Kenneth Paul G			COAL OWNER OR LESSEE	
	s: 17155 Stauntor		-	Name: NA Address:	HEUEIVED
7 Iddi Co	Smithville, WV		-	11441000.	Office of Oil and Gas
Name:			_	□ COAL OPERATOR	SEP 1 2 2018
Addres	s:			Name: NA	
				Address:	WV Department of
		(s) (Road and/or Other Di	sturbance)		Environmental Protection
				□ SURFACE OWNER OF WATER WELL	
Addres	s:		_	AND/OR WATER PURVEYOR(s)	
				Name: NA	
Addres	···		-	Address:	
2 1001 CS			_	OPERATOR OF ANY NATURAL GAS STO	ORAGE FIELD
□ SURI	FACE OWNER	(s) (Impoundments or Pits	<u> </u>	Name: NA	
Name:	NA			Address:	
Address	s:		-		
			_	*Please attach additional forms if necessary	

WW-6A (8-13) Office of Cl. 15

SEP 1 2 2018

API NO: 47- 0 8- 5 1 6171 7/2019

OPERATOR WELL NO. Goodnight 1402 N-3H

Well Pad Name: Goodnight 1402

WW 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.

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

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

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

Well Location Restrictions

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

OPERATOR WELL NO. Goodnight 1402 N-3H

Well Pad Name: Goodnight 1402

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: RECEIVED Office of Oil and Gas

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

SEP 1 2 2018

WV Department of 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.

WW-6A (8-13) API NO. 47- 0 8- 5 1 0151 1/2019
OPERATOR WELL NO. Goodnight 1402 N-3H
Well Pad Name: Goodnight 1402

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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SEP 1 2 2018

WV Department of Environmental Protection WW-6A (8-13)

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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



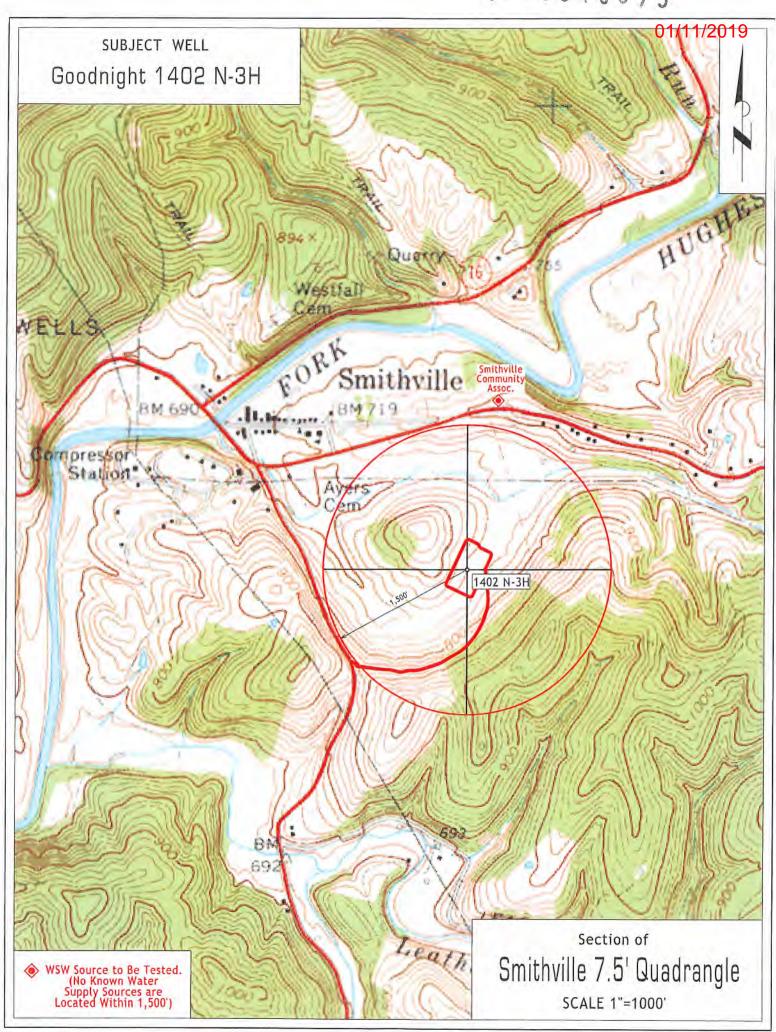
Subscribed and sworn before me this 24 day of August ,2018

Notary Public

My Commission Expires 11/2/2021

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SEP 1 2 2018



Operator Well No. Goodnight 1402 N-3H/2019

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

	ne Requirement:	Notice shall be provi	ded at	least SEVEN (7) da	ys but no more tha	n FORTY-FIVE (4	5) days prior to
entry Date of No	otice: 6/25/18	Date of Plan	ned Er	ntry: 7/02/18			
		to West Virginia Co					
	SONAL	REGISTERED		METHOD OF DEL	IVEDV THAT DE	COLUDES V	
SERV		MAIL		RECEIPT OR SIGN			
							12.6
on to the subut no more beneath successions owner of mand Sedimo Secretary, enable the	urface tract to cone than forty-five of the tract that has fininerals underlyinent Control Manuwhich statement surface owner to	ode § 22-6A-10(a), Poduct any plat surveys days prior to such entrilled a declaration pursing such tract in the could all and the statutes and shall include contact in obtain copies from the	require by to: () want to unty tax d rules nforma	ed pursuant to this and the surface owner is section thirty-six, as a records. The notice related to oil and gastion, including the action.	ticle. Such notice s r of such tract; (2) rticle six, chapter t e shall include a sta s exploration and p	shall be provided at to any owner or less wenty-two of this co atement that copies of roduction may be ob	least seven days ee of coal seams ode; and (3) any of the state Erosion otained from the
_	ereby provided			□ coa	L OWNER OR LE	COED	
	ACE OWNER(s) Kenneth Paul Goodnight			Name:			
i venillo.	17155 Staunton Turnpike						RECEIVED Office of Oil and Ga
	Smithville, WV 26178			, , , , , , , , , , , , , , , , , , , ,			
Name:				T			SEP 1 2 2018
Address: _			-		ERAL OWNER(s)		WV Dt. 1 nº 0
Name:				Name:'	** See Attached List **		Environmental Frotec
Address:				Address:			3
				*please attac	h additional forms if ne	cessary	-
Pursuant to	ey on the tract of	ode § 22-6A-10(a), no land as follows:			ude & Longitude:	39.070234 & 81.086118 SR 47	g entry to conduct
District:				Watershed:		South Fork of the Hughes	River
Quadrangle				Generally use	d farm name:	Kenneth Paul Goodnight	
may be obt Charleston obtained fr	ained from the Se, WV 25304 (304) om the Secretary hereby given by		epartm of such wv.gov	ent of Environmenta documents or addit v/oil-and-gas/pages/o	l Protection headqional information r	uarters, located at 60	11 57 th Street, SE,
Telephone:		24 -50702			Parkersburg, WV 26101		
Email:	dwhite@hgener	gyllc.com		Facsimile:	304-863-3172		
	PARTITO.	15 715		=			

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.

47 0 8 5 1 0 3 7 5 Goodnight 1402 N-3H

<u>WW-6A3</u> (1-12)

Page 1 Continued

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SEP 1 2 2018

WAY Demokrated of Environmental Protection

Mineral Owners

Ashley Price Rose & Kelley M. Rose 1265 Pine Island Rd. Merritt Island, FL 32953

Beverly Ann Wilson Moorefield 3327 17th Street NW Washington, DC 20010

Carlene Bea Murphy 11012 Corundite Road NW Massillon, OH 44646

Carolyn R. Parks Fulper HC 68 BOX 24 Smithville, WV 26178

Cecil Edward Perry, Jr. 1704 Westerfield Road Virginia Beach, VA 23455

Cherly L. Delaney
44 Valley View Drive
New Wilmington, PA 16142

Christopher Pierce Harper 212 Oakwood Dr. Watthews, NC 28104

Connie Vanessa Fulgham 3928 W 158th St. Cleveland, OH 44111

Daniel Lee & Patty N. Hinson 46 Oak St. Folkston, GA 31537 Bettie Louise Alberts Parks 224 Carrington Dr. Pawleys Island, SC 29585

Black Gold Group LTD PO Box 85 Strasburg, OH 44680

Carol Ann & John Joseph Annie 1322 Village Drive South Charleston, WV 25309

Carrie Parks Scarbro 109 Stone Street Mt Hope, WV 25880

Charles Bryan & Barbara J Parks 5766 SW 87th Ave Cooper City, FL 33328

Chester Vincent Smith 858 Basswood Ave. Canal Fulton, OH 44614

Clifford Frank Scott, Jr & Sharon Scott 1678 Leisure World Meza, AZ 85206

Craig Arthur and Beth A Lefevre 611 Stanley Ave. Clarksburg, WV 26301

Dawn and Robert W. Fetzer 28135 West Dr. Canyon Lake, CA 92587 Betty Lucille Delaney 3509 Old Pittsburg Rd New Castle, PA 16105

Camilla Gatrell
2367 Murraysville Rd
Ravenswood, WV 26164

Carolyn Diana Welch 333 West High Street Harrisville, WV 26362

Cathie I & Michael W Krosse 327 Taggart Ave. NE Massillon, OH 44646

Cherie A. Meyer 539 Brighton Ave Portland, ME 04102

Christina L. Baker 1990 Hemlock St. U Columbus, OH 43217

Colleen Salisbury 317 Whiskey Creek Ct Ocoee, FL 34761

D. Joan Jones 15 Devonshire Court Harrisville, WV 26362

Deborah Ann Schafer & James Luther Schafer 2718 CR 150 Millersburg, OH 44654

Page 1 Continued

Goodnight 1402 N-3H

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SEP 12 2018 4 7 0 8 5 1 0 3 7 5

WV Department of Environmental Protection

Mineral Owners

Debra M Bennington 4035 Snaffle Bit Rd Lebanon, IN 46052

Donald E Parks, Jr 107 N Smith St Fayetteville, WV 25840

Donna and George Sturnick 1055 Carbon Road Greensburg, PA 15601

Donna J. Parks Stanley 122 3rd Street New London, OH 44805

Elizabeth Lynn & Phillip I Gallogly 521 Belvedere Drive Mount Vernon, OH 43050

Ernest Neal Smith & Lisa Lynn Smith 8684 Sunset Valley Ave. NW Canal Fulton, OH 44614

Evelyn Virginia Vance 233 Furnace Road Wardensville, WV 26851

G Stanley Cox & Bette L Cox Estate Planning Trust 6210 Langton Circle Westerville, OH 43082 Debra R Thiel and Nelson A Thiel 5548 Rice Road Boston, NY 14025

Donald Kirby Stout 110 Countryside Dr Senoia, GA 30276

Donna Hedge Williamson 485 Inn Rd Buchanan, VA 24066

Donnetta M & Gregory H Hayduke 3403 Verplank Road Clay, NY 13041

Eric and Sharon Kay Mauser 5706 Scenic Avenue Mexico, NY 13114

Eva A. Snyder 405 Goffs Rd Harrisville, WV 26362

Fred W & Rebecca C Hedge 8110 Old Plank Rd Fredericksburg, VA 22407

Garrold J Lamp & Jackie Lamp 6888 Blue Cedar Road Leesburg, FL 34748 Denver Lee and Mary K. Rose 6304 Firetower Rd.
Kiln, MS 39556

Donald Ray Hedge, Jr and Jill M Hedge 419 Smith St. Fredericksburg, VA 22405

Reps C Williamson 3315 Trenholm Rd Powhatan, VA 26139

Douglas Mason Morriston and Susan Morriston 408 Inverness Ln Salsburg, NC 28146

Eric L Cottrill
6800 Granite Ave, APT 723
Tulso, OK 74136

Eva M. Humphrey 2600 E Allred Avenue Lot A7 Meza, AZ 85206

Freda Mae Parks Miller and William D Miller 4863 Orange Tree PI Venice, FL 34293

Garry Gene King & Bettina Frances King 1918 Harding Path. The Villages, FL 32162

Page 1 Continued

Goodnight 1402 N-3H

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SEP 1 2 2018

Environmental Protection

Mineral Owners

George H. Williams, III
PO Box 222461
Anchorage, AK 99522-2461

Glyndon H Ellis Trust

James W Ellis & Karla Hughes
Sucessors Co-Trustees
124 Merrimack Place
Chocowinity, NC 27817

Harold McKinley Hedge 801 Boone Farm Rd Asheboro, NC 27205

Hester Geraldine Tichy 607 55th Street Vienna, WV 26105

Jack Andrew Scott 1515 Hilbish Avenue Akron, OH 44312

James Mark Hedge and Ivy S. Hedge 316 Woodford St. Fredericksburg, VA 22401

Jason Scott Marshall 337 Bethel Grange Road Winchester, VA 22603 George Warren Long and Pedro Luis Robles 1161 N Hiatus Road Pembroke Pines, FL 33026

Glyndon H Ellis Trust

James W Ellis & Karla Hughes

Sucessors Co-Trustees

4601 Kenbridge Dr

Greensboro, NC 27410

Helen Marsh Testamentray Trust WS Marsh, Janice Standish, & WC Marsh, Co Trustees 26 Gate 8 Carolina Shores, NC 28467

Hilda M. Deem 5607 4th Ave Vienna, WV 26105

James H King and Robyn A King 973 Ellsworth Drive Grayslake, IL 60030

James McCoy and Roberta McCoy PO Box 5 Smithville, WV 26178-0005

Jeffrey A Schad 1320 Lewiston Drive Westfield, IN 46074 Gloria Jean Fisher 3080 School Street Clarksburg, WV 26301

Gregery Allen Raber 208 Brooklyn Ave. Weston, WV 26452

Helen May McHenry 65 Crab Run Smithville, WV 26178-7044

Ira M. Haught, Robin J Cook, and Kelsey Haught 210 E Main St Harrisville, WV 26362

James Keith Gabbert P O Box 297 Prosperity, WV 25909

Janice H & Stewart C Buckler 1651 Dares Beach Rd Prince Frederick, MD 20678

Jennifer Black Linville and John W Linville 321 Mexico Rd Edenton, NC 27932

Page 1 Continued

Goodnight 1402 N-3H

Office of Oil and Gas 47 0 8 3 1 0 3 7 5

WV Experiment of Environmental Protection

Mineral Owners

Jill Renee Fisher and Daniel L Fisher 1272 Morten St Cincinnati, OH 45208

John Thomas Hedge 5595 E Irlo Bronson Memorial Hwy. Lot 7 Saint Cloud, FL 34771

Joy Sharon Spino 901 W Washington St. Grafton, WV 26354

Judith A. Bonnett 1949 Loadstar Ave. The Villages, FL 32162-7055

Karl John Spino 1661 Victory Ave. Grafton, WV 26354

Keegan Wayne Lamp 7405 Creyts Road Dimondale, MI 48821

Kenneth Paul Goodnight
P.O. Box 7
Smithville, WV 26178-0007

Larry Oran and Brenda Sue Lantz 9932 George Washington Hwy Bridgeport, WV 26330 John G Rogers, Jr & Omah Geraldine Rogers 341 Parsons Ridge Road Proctor, WV 26055

Joseph D. Gartrell P.O. Box 31 New Philadelphia, OH 44663

Joyce E & Paul J Zentner 6906 Greenbrook Cir Citrus Heights, CA 95621

Judith Kaye Lamp 9 Northern Drive Millersburg, OH 44654

Karleena Marie Lamp 2001 Judson Road Kokomo, IN 46901

Kelsey Jean Lamp 1121 Gould Road Lansing, MI 48917

Kerri E. Rose 122 Mitchner Ave. Satsuma, FL 32189

Lawrence and Joan Dotson 730 10th Street Dr. NW Conover, NC 28613 John Kevin Stout RT 1 Box 147 Cairo, WV 26337

Joy Sharon Spino
28 Woodsdale Cemetery Road
Grafton, WV 26354

Joyce Elaine Strouse & Michael Lee Strouse 16080 McKenzie Road Mount Vernon, OH 43050

Karen Patricia Winant & Brian E Daly 341 Irish Rose Rd. Saint Augustine, FL 32092

Kathleen Horne PO Box 962 Oakland, FL 34760

Kenneth J. Delaney 109 W Sheridan Avenue New Castle, PA 16105

Kristopher James Lamp 2001 Judson Road V Kokomo, IN 46901

Lawrence Ray & Karen Lamp 5640 Township Road 353 \ Millersburg, OH 44654

Goodnight 1402 N-3H

WW-6A3 (1-12)

Page 1 Continued

Office of Oil and Gas

SEP 1 2 2018

Vii/ Department of Environmental Protection 4708510375

Mineral Owners

Lawrence S & Joanne Marie Parks 1252 Skylark Ave. Marco Island, FL 34145

Linda K. Linger 979 Broadway West Long Branch, NJ 07764

Loretta F. Parks Stanley 1361 County Rd 16 New London, OH 44851

Lorna Kay Parks 125 Wilderness Lane Wiliamsburg, VA 23188

Mark Lane Rogers 1907 Fairview Ridge Road New Matamoras, OH 45767

Mary Lee Lutton 2010 Glendale Avenue New Castle, PA 16105

Maureen Parks Bruenski 624 West Chestnut Street Junction City, KS 66441

Myrald Cantley

11 Beech Drive

Jim Thorpe, PA 18229-9553

Leona Ernest Haught, Jr. 16837 Staunton Tpke Smithville, WV 26178

Lois Ann Delaney

109 W Sheridan Avenue
New Castle, PA 16105

Loretta M. Parks Stiffler fka Loretta Ritchey 2155 Nottingham Drive Winter Park, FL 32792

Lyman Gregory Rose & Elizabeth L Rose 6322 Sanctuary Woods Ct. Burke, VA 22015

Mary Jo Finch 826 Country Club Drive Sistersville, WV 26175

Mary Parks Ryan 42 Hope Hill Mannington, WV 26582

Melody Ann Dunn 701 Heritage Drive Trenton, OH 45067

Myrtle Lamp 2001 Judson Road Kokomo, IN 46901 Lila Claire Riddle 3891 Alfalfla Lane
Fayetteville, PA 17222

Lois Louise Simonton , 5604 Wadesville Rd Belleville, WV 26133

Lori Rose Savoie
& Jacques Savoie, her husband
191 Pelican Rd.
Venice, FL 34293

Margaret Ann Mulligan & Paul L Mulligan, Jr 415 Glen Avenue Clarksburg, WV 26301

Mary Kathryn Atkinson 5 River Crest Vienna, WV 26105

Matthew Thomas Smith and Beth Anne Smith 4649 13th St. NW Canton, OH 44708

Michael David Stout 2270 Canton Hwy Cumming, GA 30040

Nancy J and Billy G Pilkington 202 York Dr. Portsmouth, VA 23702

Goodnight 1402 N-3H

WW-6A3 (1-12)

Page 1 Continued

office of Oil and G/s U 8 3 10375

SEP 1 2 2018

Environmental Franciscon

Mineral Owners

Nicole Parks Slaughter 107 North Smith Street Fayetteville, WV 25840

Patricia Anne Mauser 686 Idlewood Blvd. Baldwinsville, NY 13027

Phyllis Sweeting 1503 United Street Key West, FL 33040

Rebecca Dee VanGordon 3505 Berkley Ct Liverpool, NY 13090

Rhonda Parks 109 Stone Street Mount Hope, WV 25880

Richard L Repko 1055 Carbon Road Greensburg, PA 15601

Robert Lynn Hedge 8576 Executive Dr Norfolk, VA 23503

Ronald Parks 6101 Valley Park Drive Huntsville, AL 35810

Sandra S McCleaster 1935 Stoner Avenue NE Massillon, OH 44646 Nora E. Akers 4465 19th Ave. Parkersburg, WV 26101

Paul Kester Scott, III

1430 S Juniper Street Apt A
Escondido, CA 92025

Randall Jeffery Stout RT 1 Box 10 Petroleum, WV 26161

Rene Ann Costello 2028 E Lincoln Ave Decatur, IL 62521

Richard A & Patricia Lynn Conley 1525 Trail Ct. Grove City, OH 43123

Robert Craig Hobbs 632 Carriage Lake Dr. Lexington, SC 29072

Robert Marcus Hinson & Mary Kaye Hinson 16 Hickory Ct Williamsburg, VA 23188

Ronald R. Nutt 723 Wigner Ave Harrisville, WV 26362

Sandra Sue & Robert John Magdars 1690 S 100 E Orem, UT 84058 Orma M. Wilson Johnson 3315 Higley Rd. Rocky River, OH 44116

Penelope J & James C. Slifka 559 S Colfax Ave Elmhurst, IL 60126

Randolph Harvey Lamp 1256 Lennox Avenue NE Massillon, OH 44646

Rene Ann Costello 109 Oak Crest Dr. Partlow, VA 22534

Richard Charles Rose, Jr. & Cindy Ann Rose 11624 Falling Leaf Trl. Jacksonville, FL 32258

Robert H. Parks
791 Collins Rd
Little Hocking, OH 45742

Robert R. Delaney 616 Sand Hill Road Mount Pleasant, PA 15666

Rosa Parks 52723 Trinter Rd Vermillion, OH 44089

Page 1 Continued

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Goodnight 1402 N-3H

SEP 1 2 2018

WV Department of Environmental Protection 4708510375

Mineral Owners

Scott A. Morriston & Kristy Morriston 1701 19th Ave. Parkersburg, WV 26101

J

Sondra Maylene Lamp 2001 Judson Road Kokomo, IN 46901

Stephen Glen Doak 412 First Street Pennsboro, WV 26415

Steven Blaine Lamp 9486 Rohrland Street NW Massillon, OH 44646

Terri J. James 405 Sheffield Avenue, NE Massillon, OH 44646

Thomas E Armstrong 712 Barnhart Street Streator, IL 61364

Toni M. Layfield 356 Pine Twist Rd Elizabeth, WV 26143

Virginia R Parks Boswell 847 Telegraph Rd Stafford, VA 22554

William Richard Stout 1808 Spring St Parkersburg, WV 26101 Scott Stephen & Donna M Hedge 6466 Old Myrtle Rd. Suffolk, VA 23434

Sosciety Lee 42428 Chisolm Trl. Murrieta, CA 92562

Stephen L & Pamela Sue Mauser 8502 Gaskin Road Baldwinsville, NY 13027

Steven Douglas Showers 163 Hood Pole Run Rd Mount Clare, WV 25309

Theresa Gail Lamp 2001 Judson Road Kokomo, IN 46901

Thomas Eugene Hinson, Sr. & Janis Lyn Hinson & 8420 Old Ocean View Rd. Norfolk, VA 23518

Vieva May Harlow 337 Chestnut Ridge Rd Winston Salem, NC 27104

Walter Augustine Hedge 1481 Taft Rd Chesapeake, VA 23322

William Scott Smith & Shannon Lea Smith 586 Moon Bay Dr. Unit 4 Kuttawa, KY 42055 Sharon E and David Yedinak 119 Willow Drive Streator, IL 61364

Stefanie Ann Stout Minor 372 Fowler Rd Harrisville, WV 26362

Steven B. Rhoades P O Box 310 Grants, NM 87020

Susan & Ronald W Reynolds 1683 Hawkey Hill Road Proctor, WV 26055

Thermal Lee Bickerstaff \\
113 Cumberland St, Apt 3
Caldwell, OH 43724

Timothy Amos Clayton 7867 Hazelgreen Rd. Smithville, WV 26178-7387

Vieva May Harlow

1244 Arbor Rd

Winston Salem, NC 27104

William B. Elliott
70 Betsy Lane
Belpre, OH 45714-9336

William T & Sara E Lamp 1307 S Parrot Ave, Lot 95 Okeechobee, FL 34974 <u>WW-6A3</u> (1-12)

RECEIVED Office of Oil and Gas Goodnight 1402 N-3H

Page 1 Continued

SEP 1 2 2018

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WV Department of Environmental Protection

Mineral Owners

Wilmer Johnson and Beverly Johnson 571 Bronx Corner Rd. Ray, OH 45672 RECEIVED Office of Oil and Gas

WW-6A4 (1/12) SEP 1 2 2018

4708510375

Operator Well No. 600 41/402 N 2019

WV Department of Environmental Protection

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

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

		and the second s	the state of the s
Notice Time Date of Notic	Requirement: Notice shall ce: 06/27/2018	be provided at least TEN (10) days prior to filing a Date Permit Application Filed: 07/11/2018	permit application.
Delivery met	hod pursuant to West Vir	ginia Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIE	D MAIL	
DELIVE	ERY RETURN I	RECEIPT REQUESTED	
receipt request drilling a horion of this subsect subsection mand if availab	sted or hand delivery, give to izontal well: <i>Provided</i> , That tion as of the date the notice ay be waived in writing by the	at least ten days prior to filing a permit application, the surface owner notice of its intent to enter upon the at notice given pursuant to subsection (a), section to the was provided to the surface owner: <i>Provided, how</i> the surface owner. The notice, if required, shall include ectronic mail address of the operator and the operator and the operator and the operator and the operator.	the surface owner's land for the purpose of en of this article satisfies the requirements the vever, That the notice requirements of this aude the name, address, telephone number
	neth Paul Goodnight	Name:	
	T Commission Table	Address:	
Address: 1715	55 Staunton Tpke		
Notice is he Pursuant to Whe surface ov	reby given: Vest Virginia Code § 22-6A Vner's land for the purpose	x-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as fo	ollows:
Notice is he Pursuant to Whe surface ov	nville, WV 26178 reby given: Vest Virginia Code § 22-6A	x-16(b), notice is hereby given that the undersigned	well operator has an intent to enter upor ollows: 492550.3 4324574.1
Notice is he Pursuant to Whe surface ov	reby given: Vest Virginia Code § 22-6A Wner's land for the purpose West Virginia	a-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for Easting:	ollows: 492550.3
Notice is he Pursuant to Whe surface ov State: County: District:	reby given: Vest Virginia Code § 22-6A wner's land for the purpose West Virginia Ritchie	of drilling a horizontal well on the tract of land as for Easting: UTM NAD 83 Northing:	ollows: 492550.3 4324574.1
Notice is he Pursuant to Whe surface ov State:	reby given: Vest Virginia Code § 22-6A wner's land for the purpose West Virginia Ritchie Murphy	a-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for Easting: UTM NAD 83 Northing: Public Road Access:	ollows: 492550.3 4324574.1 SR 47
Notice is he Pursuant to Whe surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to Variation of the State	reby given: Vest Virginia Code § 22-6A wner's land for the purpose West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: West Virginia Code § 22-6 mber and electronic mail actizontal drilling may be obt	a-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for Easting: UTM NAD 83 Northing: Public Road Access:	ollows: 492550.3 4324574.1 SR 47 Kenneth Paul Goodnight ress, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters
Notice is he Pursuant to W he surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile num related to hor located at 601	reby given: Vest Virginia Code § 22-6A wner's land for the purpose West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: West Virginia Code § 22-6 mber and electronic mail and electronic m	A-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: 6A-16(b), this notice shall include the name, address of the operator and the operator's authorized tained from the Secretary, at the WV Department of the New York (2004-926-0450) or by visiting www.decess.	ollows: 492550.3 4324574.1 SR 47 Kenneth Paul Goodnight ress, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to Whe surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershiel number of the pursuant of the purs	reby given: Vest Virginia Code § 22-6A vner's land for the purpose West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: West Virginia Code § 22-6 wher and electronic mail actizontal drilling may be obtal 57th Street, SE, Charleston	A-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for Easting: OTM NAD 83 Public Road Access: Generally used farm name: 6A-16(b), this notice shall include the name, address of the operator and the operator's authorized tained from the Secretary, at the WV Department of the WV 25304 (304-926-0450) or by visiting www.decess. Authorized Representative:	ollows: 492550.3 4324574.1 SR 47 Kenneth Paul Goodnight ress, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx
Notice is he Pursuant to Whe surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershiel number of the pursuant of the purs	reby given: Vest Virginia Code § 22-6A wner's land for the purpose West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: West Virginia Code § 22-6 mber and electronic mail and electronic m	A-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: 6A-16(b), this notice shall include the name, address of the operator and the operator's authorized tained from the Secretary, at the WV Department of the New York (2004-926-0450) or by visiting www.decess.	ollows: 492550.3 4324574.1 SR 47 Kenneth Paul Goodnight ress, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx
Notice is he Pursuant to Whe surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to Valorismile number of the pursuant of the pursuant to the purs	reby given: Vest Virginia Code § 22-6A wner's land for the purpose West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: West Virginia Code § 22-6 mber and electronic mail activated drilling may be obtated to 57th Street, SE, Charleston creby given by: In: HG Energy II Appalachia, LLC	A-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for the control of drilling a horizontal well on the tract of land as for the control of the control of land as for the control of the control of land as for	ollows: 492550.3 4324574.1 SR 47 Kenneth Paul Goodnight ress, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx Diane White 5260 Dupont Road Parkersburg, WV 26101
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile num related to hor ocated at 601 Notice is he Well Operato Address: Felephone:	reby given: Vest Virginia Code § 22-6A vner's land for the purpose West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: West Virginia Code § 22-6 mber and electronic mail arizontal drilling may be obtated to 57th Street, SE, Charleston reby given by: HG Energy II Appalachia, LLC 5260 Dupont Road	A-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as formula to the land	ollows: 492550.3 4324574.1 SR 47 Kenneth Paul Goodnight ress, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx Diane White 5260 Dupont Road Parkersburg, WV 26101 304-420-1119
Notice is he Pursuant to Whe surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to Valorismile number of the pursuant of the pursuant to the purs	reby given: Vest Virginia Code § 22-6A Wher's land for the purpose West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: West Virginia Code § 22-6 Wher and electronic mail artizontal drilling may be obtained to street the street of the street o	A-16(b), notice is hereby given that the undersigned of drilling a horizontal well on the tract of land as for the control of drilling a horizontal well on the tract of land as for the control of the control of land as for the control of the control of land as for	ollows: 492550.3 4324574.1 SR 47 Kenneth Paul Goodnight ress, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White 5260 Dupont Road Parkersburg, WV 26101

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

WW-6A5 (1/12) Operator Well No. GON 102 1/2019

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

Date of Notice	Requirement: notice shall be provide: 06/28/2018 Date Per	ided no later than the filing date of perr mit Application Filed: 07/11/2018	office of Oil and Gas
Delivery met	thod pursuant to West Virginia C	ode § 22-6A-16(c)	SEP 1 2 2018
■ CERTI	FIED MAIL	☐ HAND	WV Department of
	RN RECEIPT REQUESTED	DELIVERY	Environmental Protection
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas on the surface affected by this section shall be good by the surface of the surfac	this subsection shall include: (1) A content of this article to a surface owner with distribution agreement of the surface and compensation agreementations to the extent the damages are congiven to the surface owner at the address two	plication, an operator shall, by certified mail of the drilling of a horizontal well notice of py of this code section; (2) The information hose land will be used in conjunction with the nent containing an offer of compensation for ompensable under article six-b of this chapter. It is listed in the records of the sheriff at the time
	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	at the time of notice):	
A CONTRACTOR OF THE PARTY OF TH	s listed in the records of the sheriff		
Name: Ken	neth Paul Goodnight	Name:	
Name: Ken Address: 1719 Smi Notice is her Pursuant to W	neth Paul Goodnight 55 Staunton Tpke ithville, WV 26178 eby given: Vest Virginia Code § 22-6A-16(c), n	Name: Address: notice is hereby given that the undersign	ed well operator has developed a planned
Name: Ken Address: 1718 Smi Notice is her Pursuant to W operation on State: County:	neth Paul Goodnight 55 Staunton Tpke ithville, WV 26178 eby given: Vest Virginia Code § 22-6A-16(c), n	Name: Address: notice is hereby given that the undersigner pose of drilling a horizontal well on the UTM NAD 83 Easting: Northin	tract of land as follows: 492550.3 g: 4324574.1
Name: Ken Address: 1718 Smi Notice is her Pursuant to W operation on State: County: District:	neth Paul Goodnight 55 Staunton Tpke ithville, WV 26178 eby given: Vest Virginia Code § 22-6A-16(c), note the surface owner's land for the pure West Virginia Ritchie Murphy	Name: Address: Address: notice is hereby given that the undersigner of drilling a horizontal well on the UTM NAD 83 Northin Public Road Access:	tract of land as follows: 492550.3 g: 4324574.1 SR 47
Name: Ken Address: 1718 Smi Notice is her Pursuant to W	neth Paul Goodnight 55 Staunton Tpke ithville, WV 26178 eby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Ritchie	Name: Address: notice is hereby given that the undersigner pose of drilling a horizontal well on the UTM NAD 83 Easting: Northin	tract of land as follows: 492550.3 g: 4324574.1 SR 47
Name: Ken Address: 1718 Smi Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information in headquarters,	reth Paul Goodnight 55 Staunton Tpke 6thville, WV 26178 reby given: Vest Virginia Code § 22-6A-16(c), rethe surface owner's land for the pure West Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: Vest Virginia Code § 22-6A-16(c), rethe by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE,	Name: Address: Address: notice is hereby given that the undersigner pose of drilling a horizontal well on the UTM NAD 83 Easting: Northin Public Road Access: Generally used farm name this notice shall include: (1)A copy of the a surface owner whose land will be and compensation agreement containing extent the damages are compensable are obtained from the Secretary, at the Name of the standard secretary in the Name of the standard secretary.	tract of land as follows: 492550.3 g: 4324574.1 SR 47
Name: Ken Address: 1711 Smi Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	reth Paul Goodnight 55 Staunton Tpke withville, WV 26178 reby given: Vest Virginia Code § 22-6A-16(c), rethe surface owner's land for the pure west Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: Vest Virginia Code § 22-6A-16(c), red by W. Va. Code § 22-6A-10(b) with and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	Name: Address: Address: notice is hereby given that the undersigner pose of drilling a horizontal well on the UTM NAD 83 Easting: Northin Public Road Access: Generally used farm name this notice shall include: (1)A copy of the a surface owner whose land will be and compensation agreement containing extent the damages are compensable are obtained from the Secretary, at the Name of the standard secretary in the Name of the standard secretary.	tract of land as follows: 492550.3 g: 4324574.1 SR 47 g: Kenneth Paul Goodnight his code section; (2) The information required be used in conjunction with the drilling of a gan offer of compensation for damages to the under article six-b of this chapter. Additional WV Department of Environmental Protection 50) or by visiting www.dep.wv.gov/oil-and-
Name: Ken Address: 1718 Smi Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r	reth Paul Goodnight 55 Staunton Tpke withville, WV 26178 reby given: Vest Virginia Code § 22-6A-16(c), rethe surface owner's land for the pure west Virginia Ritchie Murphy Smithville 7.5' South Fork of the Hughes River Shall Include: Vest Virginia Code § 22-6A-16(c), red by W. Va. Code § 22-6A-10(b) with and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	Name: Address: Address: notice is hereby given that the undersigner pose of drilling a horizontal well on the Easting Northin Public Road Access: Generally used farm name this notice shall include: (1)A copy of the to a surface owner whose land will be and compensation agreement containing the extent the damages are compensable to obtained from the Secretary, at the V Charleston, WV 25304 (304-926-04.)	tract of land as follows: 492550.3 g: 4324574.1 SR 47 Example 1

Oil and Gas Privacy Notice:

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



4708510375

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

September 10, 2018

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

Jill M. Newman Deputy Commissioner

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 Goodnight 1402 Well Pad, Harrison County N-3H Well Site

Dear Mr. Martin,

This well site will be accessed from Permit #03-2018-0485 issued to HG Energy II Appalachia for access to the State Road for a well site located off of Ritchie County 16 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 O&G Coordinator

Dang K. Clayton

Cc: Diane C. White

HG Energy II, LLC CH, OM, D-3

File

RECEIVED Office of Oil and Gas

SEP 1 2 2018

WV Department of Environmental Protection

<u>List of Frac Additives by Chemical Name and CAS #</u> <u>Goodnight 1402 Well Pad (N-1H, N-2H, N-3H, N-4H)</u>

Ghorded Name	CAC #	Multiple CAS #le
Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED Office of Oil and Gas

SEP 1 2 2018
WV Department of

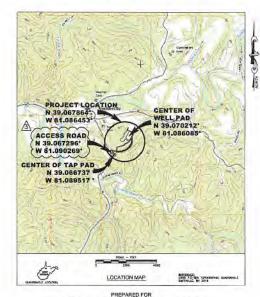


CONSTRUCTION SEQUENCE

- Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose
- 2. Site access This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles.
- Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount
- required for installing perimeter BMPs.

 4. Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- 5. Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- 6. Construction of Buildings, Utilities, and Paving During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.
- 7. Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- Final Stabilization, Topsoiling, Trees and Shrubs After construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.

MURPHY DISTRICT RITCHIE COUNTY WEST VIRGINIA



HG ENERGY II APPALACHIA, LLC

5260 DUPONT ROAD PARKERSBURG, WEST VIRGINIA 26101 (304) 420-1100

PREPARED BY

PENN ENVIRONMENTAL & REMEDIATION, INC.

111 RYAN COURT PITTSBURGH, PA 15205 (412) 722-1222

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SHT, NO.	SHEET TITLE
1	TITLE SHEET
2A-2C	SITE LAYOUT PLANS
.3.	WELL PAD, STOCKPILE, & TAP PAD SECTIONS
4A-4B	ACCESS ROAD SECTIONS
5A-5G	GENERAL NOTES & DETAILS
6A-6C	RESTORATION PLAN
7	PROPERTY MAP

Estimated Access Road Limit of Disturbance (Acres) Estimated Pipeane Limit of Disturbance (Acres)

Fidemanus Tan San Pag & Road Limit of Discurbance

RECORD OWNER	RECORD LOT #	AREA OF LOT	WITHIN LOD
GOODNIGHT KENNETH PAUL	43-07-0055-0000	225.7 AC	15.549 AC.
TOTAL LIMIT OF DIST	URBANCE		15.549 AC

	LATITUDE	LONGITUDE
1402A ACCESS ROAD ENTRANCE	N 39.067295	W 81.090269

WELL #	LAT.	LONG.
N-2H	N 39.070197	W 81.086141
N-3H	N 39.070234	W 81.086118



TITLE SHEET HG 1402 PAD & TAP SITE MURPHY DISTRICT RITCHIE COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

WEST VIRGINIA

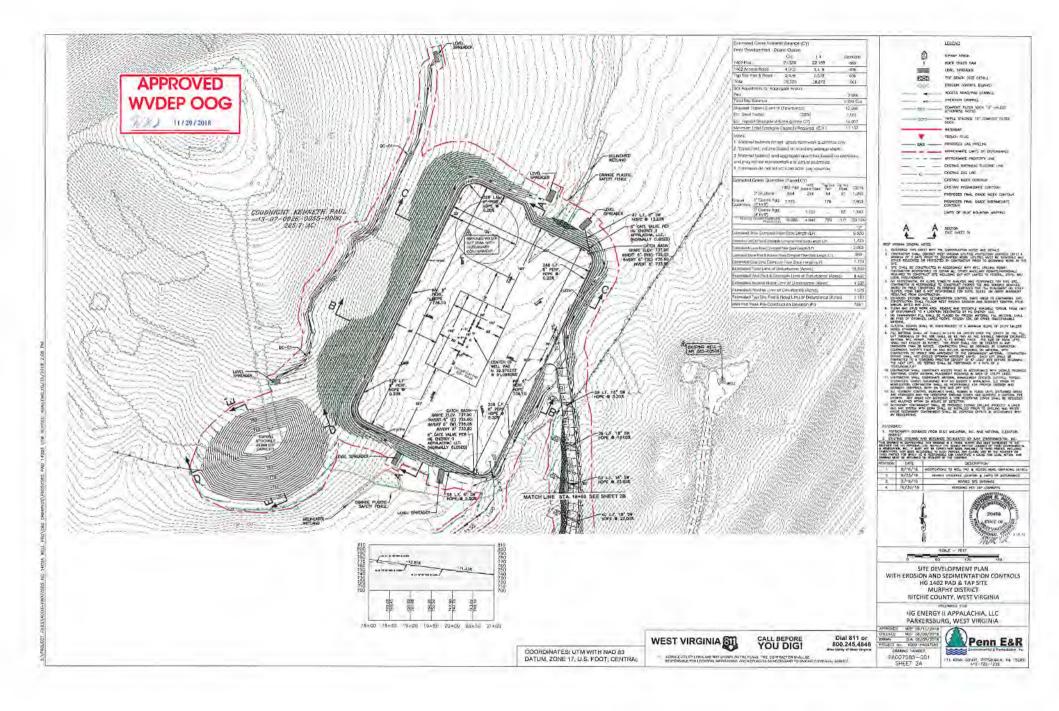
YOU DIG!

Dial 811 or

1 183

PA007585-001

Penn E&R 111 RYAN COURT, PHTSBURGH, PA 412-722-1222



Office of Oil and Gas

SEP 1 2 2018

WV Department of Environmental Protection

CONSTRUCTION SCOUENCE

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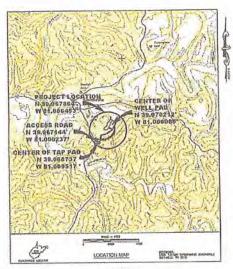
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and segment control 6MPs, and implement any structural post construction atomiwater BMPs that may be tarrulted.

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MURPHY DISTRICT RITCHIE COUNTY WEST VIRGINIA



PREPARED FOR HG ENERGY II APPALACHIA, LLC

5260 DUPONT ROAD PARKERSBURG, WEST VIRGINA 26101 (304) 42G-1100

PREPARED BY PENN ENVIRONMENTAL & REMEDIATION, INC.

111 RYAN COURT PHTSBURGH, PA 15205 (412) 722-1222

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2A-2C SIE LYOUT PLANS 3 WELL PAD, STOCKPILE, & TAP PAD SECTIONS 4A-AB ACCESS ROAD SECTIONS 5A-5G GERERAL ROLES & DETALS 6A-6C RESTORATION PLAN	SHT. NO.	SHEET TITLE
3 WELL PAD, STOCKPILE, & TAP PAD SECTIONS 4A-4B ACCESS ROAD SECTIONS 5A-5G GENERAL NOTES & DETARS 6A-6C RESTORATION PLAN	1	TITLE SHEET
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5A-5G GENERAL NOTES & DETARS 6A-6C RESTORATION PLAN	3	WELL PAD. STOCKPILE, & TAP PAD SECTIONS
6A-6C RESTORATION PLAN	4A-4B	ACCESS ROAD SECTIONS
	5A-5G	GENERAL NOTES & DETARS
7 OGOGGGTY HAD	6A-6C	RESTORATION PLAN
	7	PROPERTY MAP

RECORD CHARES		RELIGIORS WIEA OF 1555	
DOCCHEST VEHICLES PAIR	43-07-0005-0000	229.7 AC	15.540 AC.
TOTAL LIKE OF DIS	DRBANCE		15.540 AC.

WEST VIRGINIA

YOU DIG!

TITLE SHEET HG 1402 PAO & TAP SITE MURPHY DISTRICT RITCHIE COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

PAG07585-001 SHEET 1

SEPARTED THE CHES AND REPORT SHOWN AND THE PROPERTIES AND EXCEPTION CONTRACTOR CONTRAC

