

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

August 25, 2015

### WELL WORK PERMIT

#### Vertical Well

This permit, API Well Number: 47-4303527, issued to HG ENERGY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: J. M. GRASS 236

Farm Name: H. G. ENERGY, LLC

API Well Number: 47-43035276
Permit Type: Vertical Well

Date Issued: 08/25/2015

### PERMIT CONDITIONS

West Virginia Code §22-6-11 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. 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 §22-6-20, 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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operato	r: HG E	Energy,	LLC	494497948	Lincoln	Duval	Griffithsville
				Operator ID	County	District	Quadrang
2) Operator's W	ell Numb	er: <u>JM</u>	Grass 236	<del></del>	3) Elevation:	851'	-
4) Well Type: (a	ı) Oil	X_ or Ga	ns				
			iction/ Und	lerground Sto	rage		
		Deep	o/ S	hallow X			
7) Approximate	fresh wa	ter strata	Berea  14' MD Feet Fa depths: 231' 1081'		-	get Depth:	3014' M Berea
9) Approximate	coal sea	m depth:	s: <u>281'</u>				
			al, Karst, other):				
					NIA		<del></del>
11) Does land o	ontain co	al seam	s tributary to act	ive mine? _	NA		<u></u>
			nd fracturing meth				
13)		<u>C/</u>	ASING AND TUE	BING PROGR	<u>AM</u>		
TYPE S	PECIFIC	ATIONS		FOOTAGE	INTERVALS	CEME	<u>NT</u>
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	<u>Left in Well</u>	Fill -up (Cι	<u>ı. Ft.)</u>
Conductor							
Fresh Water	7"	LS	17#	381'	381'	Cement to	Surfac
Coal						ROT	115
Intermediate			-			08/11	
Production	4 1/2"	J-55	10.5#	2984'	2984'	150	sks
Tubing					Rec	eived	
Liners						9 1 201 <b>5</b>	
Packers: Kind	:				AUG	2 1 2013	
Size	s:				Office o	f Oil and Gas vironmental Pro <mark>(6</mark>	— <del>—</del> <del>Я∮9Ω/2∩</del> 15
Dept	ths Set				WV Dept. of En	AHOURIGINGS 1 100	<i>5,20,2</i> 010

WW-2A		1). Date: August 6, 2015	
(Rev. 6-14)		2.) Operator's Well Number JM Grass 236	3
			rmit
		47	
		3.) API Well No.: 4/- <u>Lincoln</u> -	
	STATE	OF WEST VIRGINIA	
Ð		TAL PROTECTION, OFFICE OF OIL AND GAS	
		TION FOR A WELL WORK PERMIT	
•	Owner(s) to be served:	5) (a) Coal Operator	
(a) Nam		Name <u>NA</u>	
Address	<u> </u>	Address	
4	Parkersburg, WV 26101		
(b) Nam		(b) Coal Owner(s) with Declaration	
Address	·	Name NA	
		Address	
(c) Nam	•	Name	
Address		Address	
Addiess			
6) Inspector	Ralph Triplett	(c) Coal Lessee with Declaration	
Address	5539 McClellan Highway	Name NA	
	Branchland, WV 25506	Address	
Telephor			
·	TO THE PERSONS NA	MED ABOVE TAKE NOTICE THAT:	
	is the lease or leases or other continuing	contract or contracts by which I hold the right to extract oil an	d gas
<u>OR</u>			•
		2, Article 6, Section 8(d) of the Code of West Virginia (see pag is of the <u>West Virginia Code</u> I have served copies of this notic	e 2)
	ny manasi required under Chapter 22-0	for the <u>vvest virginia code</u> i have served copies of this hoti	
application, a	location plat, and accompanying docume	ents pages 1 through on the above named parties by:	
application, a	location plat, and accompanying documents Personal Service (Affidavit atta	ents pages 1 through on the above named parties by: ched)	
application, a	Personal Service (Affidavit atta Certified Mail (Postmarked pos	ched) stal receipt attached)	
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I hav issued under I cert this application obtaining the I am imprisonment	Personal Service (Affidavit atta- Certified Mail (Postmarked pos- Publication (Notice of Publication) e read and understand Chapter 22-6 and this application. ify under penalty of law that I have person form and all attachments, and that be information, I believe that the information aware that there are significant penalties in the information was a superior of the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that there are significant penalties in the information aware that the information aware that the information aware that the information aware that there are significant penalties in the information aware that the informatio	iched) stal receipt attached) on attached) of 35 CSR 4, and I agree to the terms and conditions of any sonally examined and am familiar with the information submit ased on my inquiry of those individuals immediately responsi n is true, accurate and complete. Is for submitting false information, including the possibility of fine  HG Energy, LLC Diane White Agent S260 Dupont Road Parkersburg, WV 26101 304-420-1119 dwhite@hqenergyllc.com	permit tited on ble for the and

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

My Commission Expires
Oil and Gas Privacy Notice

#### **WW-2A Surface Waiver**

#### SURFACE OWNER WAIVER

County	Lincoln	Operator	HG Energy, LLC
		Operator well number	JM Grass 236
	· · · · · · · · · · · · · · · · · · ·		

### **INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A**

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: if the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) 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 a dequate 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.

<u>Comments must be in writing.</u> Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

<u>List of Water Testing Laboratories</u>. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

### **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through 13 including a work order on Form WW2-B, a s urvey plat, and a s oil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A NATURAL PERSON		FOI	R EXECUTION BY A CORPOR	RATION, ETC.
Signature	Date	Company Name By	HG Energy LLC Diane White	8-25-15
<b>.</b>		<del>-</del>	Diane White	
		its	Agent	Date
Print Name			Diane White	8-25-15
			Signature	Date

WW-2A1 (Rev. 1/11)

Operator's Well Number JM Grass 236

### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) 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:

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Rovaltv

Book/Page

\*\* See Attached Sheet \*\*

### 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 he reby a cknowledges 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: Received

- 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

AUG 2 1 2015

Office of Oil and Gas WV Dept. of Environmental Protection

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 neclessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

> Well Operator: By:Its:

Diane White HG Energy, LLC

Diane White, Agent

Operator's Well No.	JM	Grass 236
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# INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) 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 1 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:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
J M Grass, et ux	South Penn Oil Company	1/8	36/164

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drillingerations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

### 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 ackowledges 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 US Fish and Wildlife Service County Floodplain Coordinator Received

AUG 2 1 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Well Operator:	HG Energy, LLC	_
Ву:	Diane C. White	Diane White
lte.	Accountant	

WW-2B1 (5-12)

### West Virginia Department of Environmental Protection Office of Oil and Gas

### NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

atory Name	Sturm Environmental Lab	
ractor	Sturm Environmental Lab	Received
		110001400
HG Energy, L	rc	AUG 2 1 2015
5260 Dupont	Road	
Parkersburg,	WV 26101	Office of Oil and Gas
304-420-1119	)	WV Dept. of Environmental Protection
	HG Energy, L 5260 Dupont Parkersburg,	

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

- See Attached Sheet -

Page 2 - Continued

JM Grass 236

### West Virginia Department of Environmental Protection Office of Oil and Gas

### NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have gir notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

### Surface Owners Identified With Water Sources to be Sampled and Tested:

- Timothy Thaxton
   4866 Straight Fork Road
   Yawkey, WV 25573
- Kenneth Egnor
   533 Laurel Fork
   Sumerco, WV 25567
- Merri & Bernie Mallory
   Independent Drive
   Yawkey, WV 25573
- \* Mark & Jeanie Salmons 20 Breezy Lane Yawkey, WV 25573
- Lyle & Shirley Atkins 1035 Garden Heights Drive Charleston, WV 25309

- Daniel Cooper
   4851 Straight Fork Road
   Yawkey, WV 25573
- John & Debra Hubbard
   21 Independent Drive
   Yawkey, WV 25573
- HG Energy, LLC
   4908 Straight Fork
   Yawkey, WV 25573
- Harold Farley
   21 Breezy Lane
   Yawkey, WV 25573

Received

AUG 2 1 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-9	
(5/13)	

		43039	27
	Page	of	,
API Number 47			
Operator's We	II No. JM Grass	236	

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_HG Energy	LLC	OP Code 494497948	
Watershed (HUC 10)_Straig	ht Fork	Quadrangle Griffithsville 7.5'	
Elevation_851'	County_Lincoln	District_ Duval	
Oo you anticipate using mor	e than 5,000 bbls of water to complete	the proposed well work? Yes	No_x
	uttings? Yes x No No		
If so, please describ	e anticipated pit waste: Fluids encou	ntered while drilling subject well	
	er be used in the pit? Yes_x N		
Proposed Disposal	Method For Treated Pit Wastes:		
U R O	and Application Inderground Injection ( UIC Permit Nucleuse (at API Number If Site Disposal (Supply form WW-9) Ither (Explain	for disposal location)	eceived
Vill closed loop system be u	ised? No		10 0 1 0015
rilling medium anticipated	for this well? Air, freshwater, oil base	d, etc. Air, Fresh Water Al	UG 2 1 2015
-If oil based, what t	ype? Synthetic, petroleum, etc. NA	***	
Additives to be used in drilli	ng medium?_Water, Soap, KCI		ice of Oil and Gas I Environmental Protect
Orill cuttings disposal metho	od? Leave in pit, landfill, removed offs	ite, etc. Leave in Pit	
		d? (cement, lime, sawdust) Native soil, cer	ment, lime
	name/permit number?		
on August 1, 2005, by the O provisions of the permit are law or regulation can lead to I certify under pen application form and all at obtaining the information, 1	ffice of Oil and Gas of the West Virgir enforceable by law. Violations of an enforcement action. alty of law that I have personally extachments thereto and that, based of believe that the information is true, a information, including the possibility	litions of the GENERAL WATER POLLU- nia Department of Environmental Protection y term or condition of the general permit armined and am familiar with the information my inquiry of those individuals immediaccurate, and complete. I am aware the of fine or imprisonment.	n. I understand that the and/or other applicate ation submitted on the diately responsible
Company Official Signature	Diane White		
	Diane White		
	lame) Diane vinic		1
Company Official (Typed N Company Official Title Ag Subscribed and sworn before	ent	STATE OF S. DIAN 5260	FICIAL SEAL ARY PUBLIC F WEST VIRGINIA INE DULANEY Dupont Road West Virginia 26101 On Everires Oct. 4, 2016
Company Official (Typed N Company Official Title Ag	ent	STATE OF S. DIAN 5260	ARY PUBLIC F WEST VIRGINIA INE DULANEY Dupont Road

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W. Commosion Serves Of a 2005

20,

Operator's Well No. JM Grass 236 Form WW-9 1.0 acres Proposed Revegetation Treatment: Acres Disturbed Prevegetation pH \_\_\_\_\_ 6.5 Tons/acre or to correct to pH 500 lbs/acre (500 lbs minimum) Fertilizer (10-20-20 or equivalent) Straw Mulch Tons/acre Seed Mixtures Area II Area I lbs/acre Seed Type lbs/acre Seed Type 40 Tall Fescue 40 Tall Fescue 5 Ladino Clover Ladino Clover 5 \*\* Sediment Control Should Be In Place At All Times \*\* Drawing(s) of road, location, pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Ralph D. Truptoll Comments: \_\_\_\_\_ Date: <u>August 11, 2015</u>
\_\_\_\_\_\_No Roceived Field Reviewed?

AUG 2 1 2015

### Reclamation Plan For:

J.M. Grass No. 163 Austin Griffith No. 164 Austin Griffith No. 165

J.M. Grass No. 236

#### NOTE REFER TO THE WVDEP **EROSION AND SEDIMENT CONTROL** FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING

OPERATIONS.

Pit Size ~100'x15'x15' Alternate Pit

0.4 Mi. to WV SR 3. See Page 2 for Waterflood Road Detail

Lease H.G. Energy, LLC

- Surface

Austin Griffith

Location Size

~80'x175' (0.3 Ac.)

Notes:

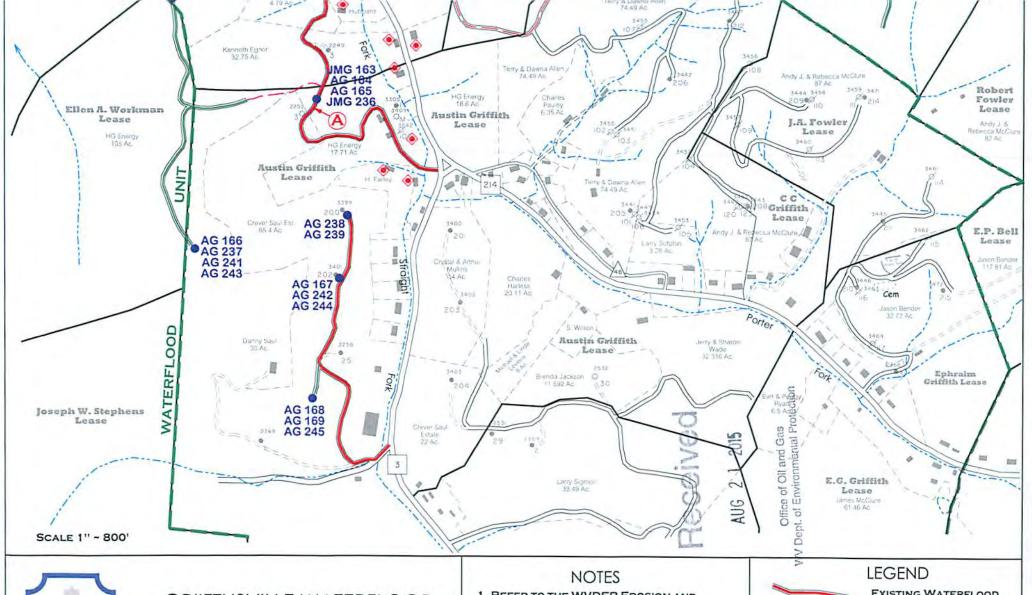
- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

### Received

**Existing Road** 

AUG 2 1 2015

Office of Oil and Gas WV Dept. of Environmental Protection





### GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2015-16 DRILLING PROGRAM (NORTH)

- 1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. MAY 20, 2013) FOR BMP'S CONTROLLING EROSION AND SEDIMENTATION FROM ALL SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT A TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG PRIOR TO 2015 (AS SHOWN). SEE PERMITS ON FILE FOR MORE DETAIL.

EXISTING WATERFLOOD ROADS TO BE USED.

OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS).

EXISTING LEASE OR FARM ROADS TO BE UPGRADED.

NEW ROADS TO BE CONSTRUCTED.

AG 216

LOCATION FOR PROPOSED WELLS

POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (LOC. APPROX.)

July 30, 2015

PAGE 2

