

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

December 28, 2015

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-4303557, 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.

Operator's Well No: E. G. GRIFFITH 180

Farm Name: MCCLURE, JAMES R.

API Well Number: 47-4303557

Permit Type: Secondary Recovery Well

Date Issued: 12/28/2015

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

FORM WW-3 (B) 1/12



1) Date:	11/02/20	15						
2) Operato	r's Well M	Vo.	E. 0	G. Griffith 180)			
3) API We	ell No.:	47	-	Lincoln	-	S		
		State		County			Permit	
4) UIC Per	rmit No.	UIC2	R040	301AP				

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

6) LOCATION:		d Injection: 1075	on v]_/		ction (not stora; atershed: Po	ge) orter Fork]_ / v	Vaste Disposal
b) boominon.		: Duval				ounty Lincoln	onto i ont	Quadra	ngle Griffithsville 7.5'
7) WELL OPER			LLC			8) DESIGNA	TED AGE		-
		260 Dupor				o) DESIGNA	Addre		upont Road
na			, WV 2610	11			ridaro		burg, WV 26101
OUT & GAS D					-	10) DRILLIN	G CONTI	_	isarg, 77 v 20101
9) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jeremy James									roval of Permit
Address P. O. Box 36					_	Address	De Determin	теа орон дрр	dovar or 1 errint
	enin, WV 25	045				Address			
11) PROPOSED				hysical	nation _	deeper/ Perfo well (specify) _ Depth	/ Recrate new fo	drill ormation	/ Stimulate / Convert O) to 3130 Feet (bottom
(2) GEOLOGIC (3) Estimated De					enth of exis			Feet	
(4) Approximate	~		The state of the state of	esh 45		Feet	Salt		Feet
(5) Approximate		-	505			_ 1000	- Juli	4.404	
6) Is coal being					No				
7) Virgin reserv				on 1050	_	g Source	_ Estimated		
, -	*			-	psi	g Source	Estimateu		i (DITED)
8) Estimated res				550 DED 4.7	TOMA Y	, , , ,	05.001	D	psig (BHFP)
9) MAXIMUM									nole pressure 2400 psi
0) DETAILED		CATION	OF MA	TERIAL	STORET				Frach water produced
									Tresh water, produced
			ls as need	ed to ma	intain water o	quality and improv			Tresh water, produced
21) FILTERS (IF	ANY) C	artridge fil	ls as need ters and/or	ed to ma coal bed	intain water o d filters	quality and improv	e oil recove	ry.	Tresit water, produced
21) FILTERS (IF	ANY) C	artridge fil	ls as need ters and/or	ed to ma coal bed	intain water o d filters	quality and improv	e oil recove	ry.	Tresh water, produced
21) FILTERS (IF	ANY) C	artridge fil	ls as need ters and/or	ed to ma coal bed	intain water o d filters	quality and improv	e oil recove	ry.	Tresh water, produced
21) FILTERS (IF 22) SPECIFICAT	ANY) _C CIONS FO	artridge fil R CATH	ls as need ters and/or ODIC PR	ed to ma coal bed	intain water o d filters	quality and improv	e oil recove	ry.	Tresh water, produced
21) FILTERS (IF 22) SPECIFICAT	ANY) _C CIONS FO	artridge fil R CATH PROGRAI	ls as need ters and/or ODIC PR	ed to ma r coal bed ROTEC	intain water o d filters	quality and improv	e oil recove	ry.	
21) FILTERS (IF 22) SPECIFICAT 33) CASING AND	ANY) _C CIONS FO	artridge fil R CATH PROGRAI	ls as need ters and/or ODIC PR	ed to ma r coal bed ROTEC	intain water o d filters	quality and improv	e oil recove	CONTROL CEMENT FILL -UP OR SACKS	PACKERS
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21) FILTERS (IF 22) SPECIFICAT 33) CASING AND CASING OR TUBING TYPE Conductor	ANY) CONTIONS FOR	artridge fil R CATH PROGRAI SP Grade	ls as need ters and/or ODIC PR M ECIFICATI Weight per ft.	cons	intain water of d filters ΓΙΟΝ AND	OTHER CORI	TERVALS Left In Well	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.)	
2) SPECIFICAT 3) CASING AND CASING OR TUBING TYPE Conductor Tresh Water	ANY) CONS FOR	artridge fil R CATH PROGRAI	ls as need ters and/or CODIC PR M ECIFICATI Weight	ed to ma r coal bed ROTEC	intain water of d filters ΓΙΟΝ AND	OTHER CORI	ROSION C	CONTROL CEMENT FILL -UP OR SACKS	PACKERS
21) FILTERS (IF 22) SPECIFICAT 33) CASING AND CASING OR TUBING TYPE Conductor Tresh Water Coal	ANY) CONTIONS FOR	artridge fil R CATH PROGRAI SP Grade	ls as need ters and/or ODIC PR M ECIFICATI Weight per ft.	cons	intain water of d filters ΓΙΟΝ AND	OTHER CORI	TERVALS Left In Well	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS Kinds Sizes
21) FILTERS (IF 22) SPECIFICAT 33) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate	ANY) C. TIONS FOR	artridge fil R CATH PROGRAI SP Grade	Is as need ters and/or ODIC PR M ECIFICATI Weight per ft.	coal becker coal b	intain water of d filters ΓΙΟΝ AND	FOOTAGE IN For Drilling 605'	TERVALS Left In Well	CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS Kinds Sizes 2.375" x 4.5"
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production	ANY) CONTIONS FOR	artridge fil R CATH PROGRAI SP Grade LS J-55	Is as need ters and/or ODIC PR M ECIFICATI Weight per ft. 17#	CONS New	intain water of d filters ΓΙΟΝ AND	FOOTAGE IN For Drilling 605' 3295'	TERVALS Left In Well 605'	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS Kinds Sizes 2.375" x 4.5" Depths set
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Cubing	ANY) C. TIONS FOR	artridge fil R CATH PROGRAI SP Grade	Is as need ters and/or ODIC PR M ECIFICATI Weight per ft.	coal becker coal b	intain water of d filters ΓΙΟΝ AND	FOOTAGE IN For Drilling 605'	TERVALS Left In Well	CEMENT FILL -UP OR SACKS (CU. FT.) CTS	PACKERS Kinds Sizes 2.375" x 4.5" Depths set
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21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Cubing	ANY) C. TIONS FOR TUBING P. Size	artridge fil R CATH PROGRAI SP Grade LS J-55	Is as need ters and/or ODIC PR M ECIFICATI Weight per ft. 17#	CONS New	intain water of d filters ΓΙΟΝ AND	FOOTAGE IN For Drilling 605' 3295'	ROSION COTERVALS Left In Well 605' 3295' 2914'	CEMENT FILL -UP OR SACKS (CU. FT.) CTS	PACKERS Kinds Sizes 2.375" x 4.5" Depths set 2800'
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21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Cubing	ANY) C. TIONS FOR TUBING P. Size	artridge fil R CATH PROGRAI SP Grade LS J-55	Is as need ters and/or ODIC PR M ECIFICATI Weight per ft. 17#	CONS New	intain water of d filters ΓΙΟΝ AND	FOOTAGE IN For Drilling 605' 3295'	TERVALS Left In Well 605'	CEMENT FILL -UP OR SACKS (CU. FT.) CTS 150 sks	PACKERS Kinds Sizes 2.375" x 4.5" Depths set 2800' Note tions I and Gas Bottom
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Fubing Liners	TUBING P Size 7" 4 1/2" 2 3/8"	artridge fil R CATH PROGRAI SP Grade LS J-55 J-55	ls as need ters and/or ODIC PR M ECIFICATI Weight per ft. 17# 10.5# 4.6#	CONS New	intain water of filters FION AND Used	FOOTAGE IN For Drilling 605' 3295' 2914'	TERVALS Left In Well 605'	CEMENT FILL -UP OR SACKS (CU. FT.) CTS 150 sks	PACKERS Kinds Sizes 2.375" x 4.5" Depths set 2800' Note tions I and Gas Bottom
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Fubing Liners	TUBING P Size 7" 4 1/2" 2 3/8"	artridge fil R CATH PROGRAI SP Grade LS J-55 J-55 ATING R	Is as need ters and/or ODIC PR M ECIFICATI Weight per ft. 17# 4.6#	CONS New X	intain water of filters FION AND Used Used	FOOTAGE IN FOO Drilling 605' 3295' 2914' E. G. Griffith e	TERVALS Left In Well 605'	CEMENT FILL -UP OR SACKS (CU. FT.) CTS 150 sks	PACKERS Kinds Sizes 2.375" x 4.5" Depths set 2800' Thicktions I And Gas Bottom
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Cubing Liners	TUBING P Size 7" 4 1/2" 2 3/8"	artridge fil R CATH PROGRAM SP Grade LS J-55 J-55 ATING R ease x	Is as need ters and/or ODIC PR M ECIFICATI Weight per ft. 17# 4.6#	CONS New X X X X X Avere acq other co	Used Used uired from ontract	FOOTAGE IN FOO Drilling 605' 3295' 2914' E. G. Griffith e	TERVALS Left In Well 605'	CEMENT FILL -UP OR SACKS (CU. FT.) CTS 150 sks	PACKERS Kinds Sizes 2.375" x 4.5" Depths set 2800' Note tions Here Gas Bottom

01/01/2016

FORM WW-3 (A) 1/12



1) Date:	November	3, 201	5			
2) Operato	r's Well	No.	E. G. 0	Griffith 180		
3) API We	ell No.:	47	-		14	
		State		County	-	Permit

4) UIC Permit No. UIC2R04301AP

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Owner(S) To Be Served (a) Name James R. McClure Address 4705 Midway Road Yawkey, WV 25573 (b) Name Stephen & Shirley Egnor Address 4540 Straight Fork Yawkey, WV 25573		7) (a) Coal Operator Name N/A Address 7) (b) Coal Owner(S) With Declaration Of Record Name N/A Address				
(c) Name Address 6) Inspector Address	Jeremy James P. O. Box 36	Name Address 7) (c) Coal Name	Lessee with Dec	claration Of Record		
Telephone	Clendenin, WV 25045 304-951-2596	Address	-			
(1) The Appliparties in (2) The plat (3) The Consplan for e The date THE REASON APPLICATION THE APPLICATION	PERSONS NAMED ABOVE: You sho lication For A Liquid Injection or Waste Divolved in the drilling or other work; surveyor's map) showing the well location of struction and Reclamation Plan on Form WW rosion and sediment control and for reclamat proposed for the first injection or waste of N YOU HAVE RECEIVED THESE DOON N WHICH ARE SUMMARIZED IN THE "ATION [(FORM WW-3(B)] DESIGNATED	isposal Well on Form WW V-9 (unless to the second for the second f	I Work Permit V-6; and the well work is site and access r IS THAT YOU FIONS" ON TH	on Form WW-3(B), s only to plug a well; road. U HAVE RIGHTS HE REVERSE SIDE	, which sets), which sets 20 15 REGARDI OF THE C	s out the s out the NG THE COPY OF
Notice and Ap West Virginia Application an and Reclamation	at under Chapter 22-6 of the West Virginia Copplication and accompanying documents for Department of Environmental Protection, described depicted on the attached Form WW-6. Copplian have been mailed by registered or complian have been mailed by registered or complian have been mailed by registered or compliant and the compliant and the compliant and the complex statements.	a Well Wo with respec- opies of this ertified mail	rk Permit with et to a well at Notice, the Ap or delivered by	the Chief of the Off the location describ oplication, the plat, a y hand to the person	fice of Oil a ped on the and the Cons (s) named a	and Gas, attached struction
am familiar wit attachments an immediately re the information are significant	The person signing this docume repenalty of law that I have personally examine the information submitted in this documend that, based on my inquiry of those individual sponsible for obtaining the information, I below is true, accurate and complete. I am aware to penalties for submitting false information, incomplete and imprisonment.	at and all hals lieve that that there cluding	Address	He Energy A 12015 5260 Dupont Road Parkershwart W Stane Whitelal Provingent Diana Whitelal Provingent	nt of rotection	

WW-2B	1
(5-12)	

W	ell	No.	E.	G.	Griffith	180
W	ell	No.	⊏.	G.	Grimith	180

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.

Certified Laboratory Name Sturm Environmental

Sampling Contractor

Sturm Environmental

Well Operator HG Energy, LLC

Address

5260 Dupont Road

Parkersburg, WV 26101

Telephone

304-420-1119

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 -

RECEIVED Office of Oil and Gas

DEC 0 4 2015

WV Department of Environmental Protection WW-2B1 Well No. E G Griffith 180

Page 2 - Continued

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.

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:

- * Christopher & Bethany Dotson 4701 Midway Road Yawkey, WV 25573
- * James & Carolyn McClure 4705 Midway Road Yawkey, WV 25573

RECEIVED
Office of Oil and Gas

DEC 0 4 2015

WV Department of Environmental Protection 01/01/2016

	Page	462	of_	4	3	0	3 5	5	75
API Number 47 -		-							
Operator's Well N	O. E. G.	Griffith 18	0						

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name HG Energy, L	LC	OP Code 49449794	8				
Watershed Porter Fork	Q	Quadrangle Griffithsville 7.5'					
Elevation 1075'	County_Lincoln	District_Duval					
Description of anticipated Pit	Waste: Fluids accumulated while drilling	ng the subject well					
Do you anticipate using more	than 5,000 bbls of water to complete the	he proposed well work? Yes	No_X				
Will a synthetic liner be used	in the pit? Yes If so,	what mil.? 30 mil					
Proposed Disposal Method Fo		nberor disposal location))				
-If oil based, what ty Additives to be used? Water, s Will closed loop system be us Drill cuttings disposal method -If left in pit and plan	Soap, KCI	te, etcLeave in pit ? Cement, lime, sawdust_Native soil,	cement and lime				
on August 1, 2005, by the Off provisions of the permit are elaw or regulation can lead to e I certify under penal application form and all atta obtaining the information, I	ty of law that I have personally example the chiments thereto and that, based on believe that the information is true, a information, including the possibility of Diane White The Diane White	a Department of Environmental Prote term or condition of the general per mined and am familiar with the inf my inquiry of those individuals in accurate, and complete. I am awar	ection. I understand that the rmit and/or other applicabl formation submitted on thi mmediately responsible for				
Subscribed and sworn before to the state of	this 3rd day of Noven $4/26/2020$	nber 20 Mg Com	partment of ental Protection 01/01/201				

L	EGEND
Property Boundary	Diversion executive execut
Road = = = = = = = = = = = = = = = = = = =	Spring —
Existing Fence — X — X — X —	Wet Spot
Planned Ferice///	Drain Pipe with size in inches
Stream	$Waterway \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow$
Open Ditch	Cross Drain 7////////////
Rock 63668	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed 1.6 acr	Prevegetation pH
3	6.5
Lime Tons/acre or to correct to pH _	
Fertilizer (10-20-20 or equivalent) 500 lbs/a	ere (500 lbs minimum)
Mulch Straw 2 Tons/acr	•
Mulci Tolls/act	G
Seed I	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
Tall Fescue 40	Tall Fescue 40
Ladino Clover 5	Ladino Clover 5
Ladillo Ciovei 3	
Sediment Control Should Be In Place At	All Times
	7.11.11.100
Attach:	
Drawing(s) of road, location,pit and proposed area for land applic	ation.
Photocopied section of involved 7.5' topographic sheet.	
-0/1/	
Plan Approved by	
Comments:	
Commens.	
	RECEIVED Office of Oil and Gas
, ,	
Title: 115 pector GGG Eield Reviewed? Lincoln Ves	Date: 11-20-15 DEC 0 4 2015
Field Reviewed? (Lincoln) Yes () NTo
11000 100100000	AAA Debartment of
	Environmental Protection 16

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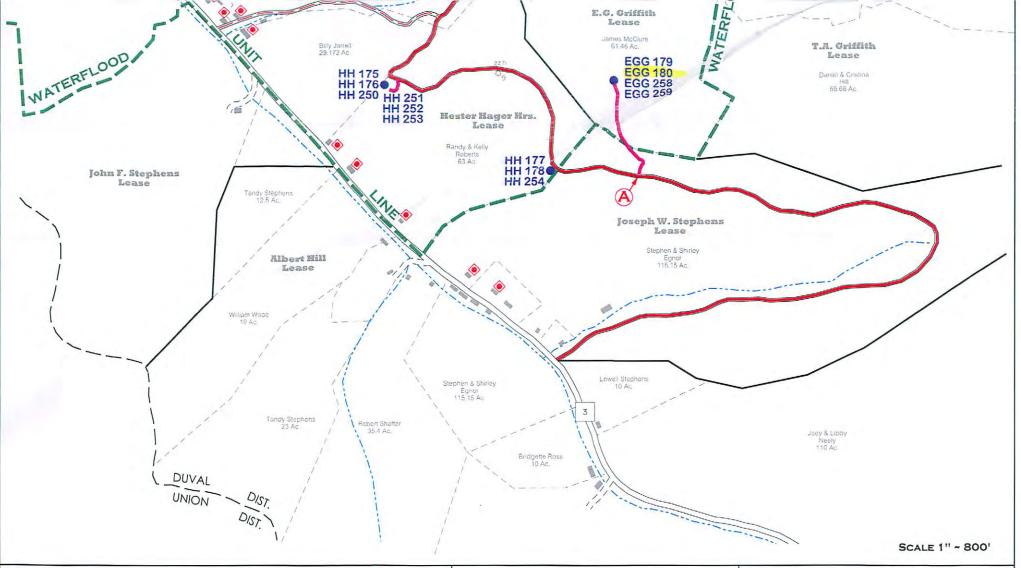
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GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

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

NOTES

- 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.

LEGEND

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 172

LOCATION FOR PROPOSED WELLS

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

SEPTEMBER 10. 2015

PAGE 2

