

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

June 29, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-4303477, 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: MA BAYS 231

Farm Name: HG ENERGY, LLC

API Well Number: 47-4303477

Permit Type: Vertical Well

Date Issued: 06/29/2015

Promoting a healthy environment.

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 Operator	r: HG E	nergy, L	LC	494497948	Lincoln	Duval	Griffithsville 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Numb	er:_MA	Bays 231		3) Elevation:	945'	-
4) Well Type: (a)	Oil <u>X</u>	or Ga	as				
(b) If Gas: Production/ Underground Storage							
		Deep	p/ S	Shallow X	_		
5) Proposed Tar 6) Proposed Tot 7) Approximate t 8) Approximate s	al Depth fresh wa	: 2984' TM ter strata	AD Feet a depths: 340'	Formation at F	Proposed Tar Proposed Tota	get Depth: 2 al Depth: Ber	984' TMD ea
9) Approximate	coal sea	m depth:	s: <u>390'</u>				
10) Approximate	void de	pths,(coa	al, Karst, other):	NA			
11) Does land co	ontain co	oal seam	s tributary to act	ive mine? N	<u>A</u>		
12) Describe prop Orill and stimulate							
				 	-		
13)	SECIEIC		SING AND TUE			OFME	\!T
		<u>ATIONS</u>	<u> </u>	FOOTAGE	INTERVALS		
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	<u>. Ft.)</u>
Conductor							
Fresh Water	7"	LS	17#	490'	490'	CTS	04/23/15
Coal					!		ortland
Intermediate							
Production	4 1/2"	J-55	10.5#	2954'	2954'	150 s	ks
Tubing					سرصد سرار	insoci	
Liners					1 6000	rivod	
Packers: Kind:				-	APR 2	7 2015	
Sizes							
Depti	Depths Set Office of Oil and Gas WV Dept. of Environmental Protection 07/03/20					07/03 /2015	

43034 CE# 3004 \$ 650°

WW-	2A
(Rev.	6-14)

1). Date:			-	
2.) Operator's Wel	Number	MAE	Bays	231
	State	County		Permit
3.) API Well No .:	47-	Lincoln		

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

	Owner(s) to be served:		5) (a) Coal Op				
(a) Nan			Name	NA			
Address			Address	_			
	Yawkey, WV 255	73					
(b) Nan			(b) Coal C	wner(s) with De	eclaration		
Address	5260 Dupont Roa	nd 🗸	Name	NA			
	Parkersburg, WV	26101	Address	-			
(c) Nam	e		Name				
Address			Address				
Inspecto	Jeremy James		(c) Coal L	essee with Dec	laration		
Address			Name	NA	A STATE OF THE PARTY OF THE PAR		
	Ona. WV 25545		Address	1.11.1			
Telepho			- (((((((((((((((((((•			
		ERSONS NAM	MED ABOVE T	AKE NOTICE	гнат.		
Included	is the lease or leases or o					nt to extract oi	l and gas
				and the second of the second o	3.	THE PERMIT	3
7							
R Included	is the information required	by Chapter 22.	. Article 6. Section	n 8(d) of the Coo	de of West	Virginia (see	page 2)
Included	is the information required						
Included I cer	tify that as required under	Chapter 22-6	of the West Virg	inia Code I have	e served co	opies of this i	notice and
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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 your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer a 07/03/2015

WW-2A1 (Rev. 1/11)

Operator's Well Number MA Bays 231

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:

A	 .		1_
Gran	(OF.	Lessor	r. etc.

Grantee, Lessee, etc.

Royalty

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:

- 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

Received

APR 2 7 2015

Office of Oil and Gas
MM Dept. of Environmental Protection

Diane White

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 ac quired from the appropriate authority before the affected activity is initiated.

Well Operator: By:Its: HG Energy, LLC

Diane White

Agent

Operator's Well No. M.	. A. Bays 231
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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)

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- (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
Isaac Bays et ux	Pennzoil Company	1/8	3/271

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

APR 2 7 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Well Operator:	HG Energy, LLC	_	
By:	Diane C. White	Diane	White
lts:	Agent		

WW	-2B1
(5-1	2)

Well	No.	MA	Bays	231
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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 Labs

Sampling Contractor

Sturm Environmental Labs

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 List -

APR 2 7 2015

Office of Oil and Gas. WV Dept. of Environmental Protection WW-2B1
Page 2 - Continued

Well No.

M. A. Bays 231

West Virginia Department of Environmental Protection Office of Oil and Gas

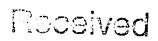
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FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining 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:

- Jonathan Johnson
 Bethel Drive
 Yawkey, WV 25573
- Dwight Lovejoy
 5 Bethel Drive
 Yawkey, WV 25573
- Randall Coy
 1 First American Way
 Westlake, TX 76262



APR 2 7 2015

Office of Oil and Gas
WV Dent, of Environmental Protection

07/03/2015

WW-9 (5/13)

My commission expires

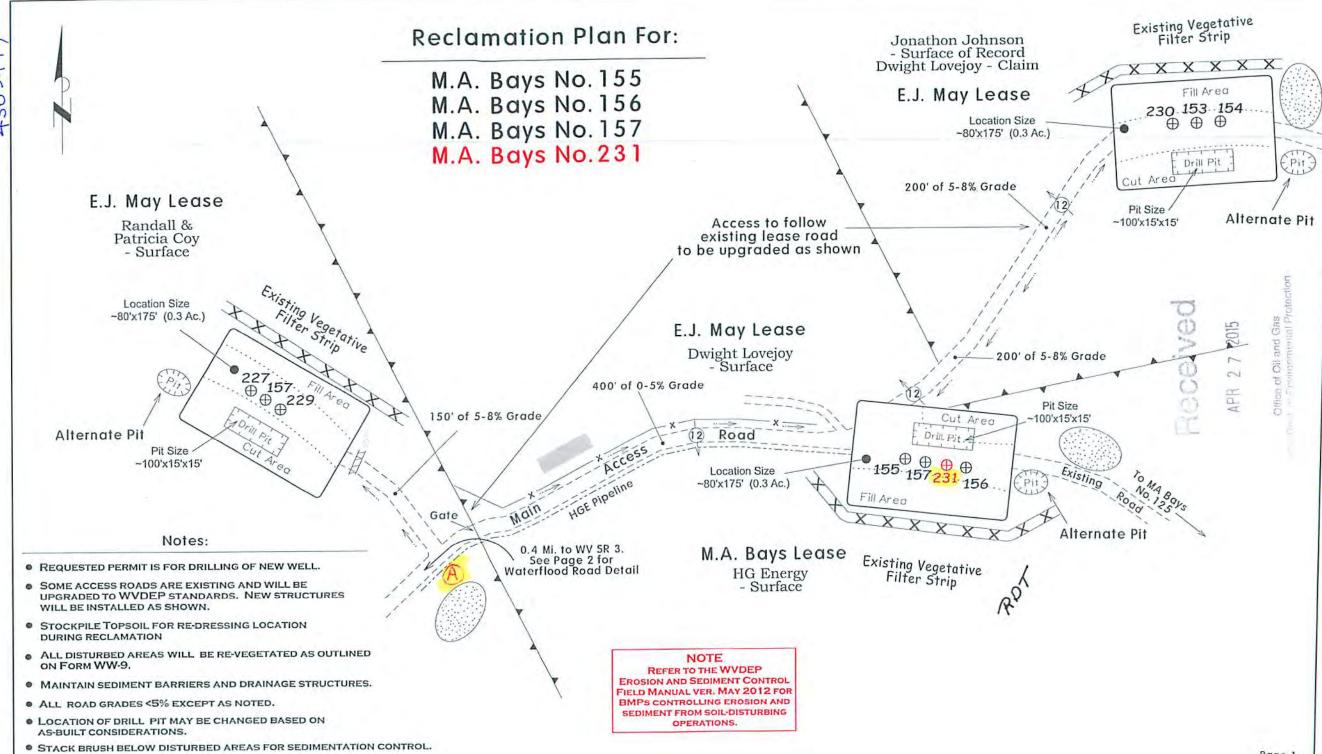
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API Number 47 -	
Operator's Well No.	MA Bays 231

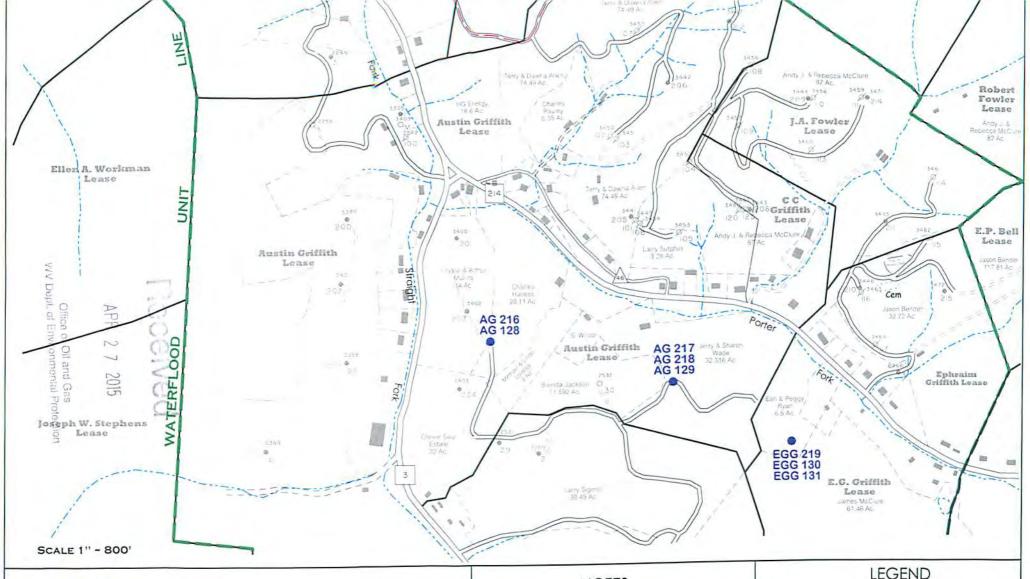
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

Operator Name HG Energy,	LLC	OP Code 494497948
Watershed (HUC 10) Branc	n of Straight Fork	Quadrangle Griffithsville 7.5'
Elevation 945'	County_Lincoln	District Duval
Will a pit be used for drill cut	tings? Yes X No No	the proposed well work? Yes No _X Intered while drilling subject well
Will a synthetic line	r be used in the pit? Yes X No	If so, what ml.? 20 mil
Proposed Disposal N	Method For Treated Pit Wastes:	
Ur Re Of	nd Application Iderground Injection (UIC Permit Number USE (at API Number Site Disposal (Supply form WW-9 for her (Explain	CONTRACTOR
Will closed loop system be us	sed? No	
Drilling medium anticipated i	for this well? Air, freshwater, oil based,	, etc. Air, Fresh Water
-If oil based, what ty	rpe? Synthetic, petroleum, etc. NA	
Additives to be used in drilling	ng medium? Water, Soap, KCI	
	The contract of the contract o	te, etc. Leave in pit
		? (cement, lime, sawdust) Native soil, cement, lime
		, (comony mist, savidas)
I certify that I under	stand and agree to the terms and conditi	tions of the GENERAL WATER POLLUTION PERMIT issued
provisions of the permit are a law or regulation can lead to I certify under pena application form and all attractioning the information, I	enforceable by law. Violations of any tenforcement action. alty of law that I have personally example achieves thereto and that, based on the contract of the	
Company Official Signature_	Diane White	APR 2 7 2015
Company Official (Typed Na		
Company Official Title Age		WV Dept. of Environmental Pu
		OFFICIAL SEAL
Subscribed and sworn before	me this 13 day of April	NOTARY PUBLIC 15STATE OF WEST VIRGINIA S DIANNE DULANEY
0	2/ -/ 504	Public 5260 Dupont Road Parkersburg West Virginia 26101 My Commission Expires Oct. 4, 2016

Form WW-9					Operator's Well 1	No. MA Bays 23
Proposed Revegetation	Treatment	: Acres Disturbed	1.00		revegetation pH	
Lime	3	Tons/acre or to corre	ect to pH			-
		F 0.4	n			
Fertilizer (10-	20-20 or eq	quivalent) 500 2	lbs/a	cre (500 lbs minim	um)	
Mulch_Stra	1VV		Tons/acr	re		
			Seed l	Mixtures		
	Area I				Area II	
Seed Type		lbs/acre			ed Type	lbs/acre
Tall Fescue		40	40 Tall F		9	40
Ladino Clover 5			_ _	Ladino Clover		5
Plan Approved by:		7 ripsett	9			
<u> </u>						
Title: District	Insp	actor)		Date:	vil 23,20	1.5
Field Reviewed?	(✓ Yes		_) No		Recei

APR 2 7 2015







GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

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

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.

ROADS TO BE USED.

EXISTING WATERFLOOD

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.)

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MARCH 3, 2015

