

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

July 01, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10302895, issued to STONE ENERGY CORPORATION, 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 fee) free to contact me at (304) 926-0499 ext. 1654.

Operator's Well No: ZMBG #5H

Farm Name: ZUMPETTA, LAWRENCE, ET AL

API Well Number: 47-10302895

Permit Type: Horizontal 6A Well

Date Issued: 07/01/2013



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. 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 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. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. 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.
- 3. 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.
- 4. 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.
- 5. 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.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

				103	06	600
1) Well Operator:	STONE ENE	RGY CORPORATION	494490923	Wetzel	Magnolia	New Martinsville
of many Familia			Operator ID	County	District	Quadrangle
2) Operator's Well	Number: _	ZMBG #	5H V	Vell Pad Nan	ne: ZMB	G
3 Elevation, curren	it ground:	1,340' Ele	vation, proposed	post-construc	etion:	1,334'
	Other	Oil				
(b) I		llow	Deep			
5) Existing Pad? Yo	es or No:	No				
		, Depth(s), Anticipate formation. Depth is expected to be				expected to have a
thickness of 56' and a roo	k pressure of 2,500 to	3,000 psi				
7) Dramagad Total V	Jartical Donth	i: 6,740' TVD				
7) Proposed Total V			COUNT			
8) Formation at Tot			S SHALE			
9) Proposed Total N	The second of th		Later and the second second			
10) Approximate F			' Shallowest and 1,			AND ROLL IN TO 1
11) Method to Dete			ticeable flow from	flow line or wh	en having to s	tart soaping
12) Approximate S						
13) Approximate C	oal Seam Dep	oths: 1,142'				
14) Approximate D	epth to Possib	ole Void (coal mine, l	carst, other):	None Antic	ipated	
15) Does land conta	ain coal seams	s tributary or adjacent	to, active mine?	No	1	
16) Describe propo		Construct well site actor rig. MIRU Top Hole Rig and o	cording to approved engir			
		s. Cement to surface. Continue of				
Set 5.5" production casin	g and cement 1000' b	ack into 9.625" casing. RDMO H	lorizontal Rig.			
MIRU completion Equipm	ent. Run CBL from a	ng methods in detail:				
The state of the s		I stage using sand laden slick wa				
		g equipment to aid in fluid recover				shed and well is turned
in line the well pad will be	reclaimed. See atta	ched Frac Chemical Addendum for	or additives that may be use	ed during the stimula	ition.	
18) Total area to be	disturbed, in	cluding roads, stockp	ile area, pits, etc,	(acres):		28.79
19) Area to be distu	irbed for well	pad only, less access	road (acres):		9.89	
						Received

Dm4 4-1-13 Received Office of Oil & Gas

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20)

CASING AND TUBING PROGRAM

ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	New	LS	94.0	40'	40' /	38 CTS
Fresh Water	13.375"	New	J55	54.0	1,300'	1,300'	1,238 CTS
Coal	13.375"	New	J55	54.0	1,300'	1,300' 🗸	1,238 CTS
Intermediate	9.625"	New	J55	36.5	2,570'	2,570'	693 Lead - 357 Tail CTS
Production	5.5"	New	P110	20.0		13,260' /	1,100 Lead - 2,165 Tail TOC @ 1,570'
Tubing	2.375"	New	J55	4.7		7,200'	N/A
Liners							

Note: The fresh water/coal string will be set above sea level and cemented to surface.

4-1-13

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	24"	0.375"	N/A	Type 1	1.18
Fresh Water	13.375"	17.5"	0.380"	2,730 psi	Class A	1.19
Coal	13.375"	17.5"	0.380"	2,730 psi	Class A	1.19
Intermediate	9.625"	12.25"	0.352"	3,520 psi	Class A	Lead 1.26 - Tail 1.19
Production	5.5"	8.75"	0.361"	12,360 psi	Class A	Lead 1.25 - Tail 1.23
Tubing	2.375"	N/A	0.190"	7,700 psi	N/A	N/A
Liners						

PACKERS

Kind:	N/A	
Sizes:		
Depths Set:		Received

Office of Oil & Gas

*Note: Attach additional sheets as needed.

21) Describe centralizer placement for each casing string.	-Fresh Water/Coal string will incorporate the use
of bow spring centralizers with one (1) being placed above guide	e shoe and one (1) every second joint to surface for
a total of 17 bow spring centralizers will be run.	
- Intermediate string will incorporate the use of bow spring centre	alizers with one (1) being placed above the guide
shoe, one (1) above the float collar, and one (1) every third joint	to surface. One (1) rigid centralizer will be placed
near the surface. A total of 23 bow spring centralizers will be ru	n.
- Production string will incorporate the use of alternating left and	right hand spiral centralizers with one (1) every
fourth joint from TD to KOP, one (1) every third joint from KOP t	to top of nudge or slant, and one (1) bow spring
centralizers placed on every third joint to TOC. A total of 74 Sp	iral and 10 Bow Spring will be be run.
22) Describe all cement additives associated with each cement	
cemented using a slurry of Class A cement with 0.10 lb/sx Cello fla	
- Intermediate string will be cemented using a Lead and Tail slur	
0.07 gps Dispersant, 0.10 gps Anti-Foam, 4.0% BWOB Expandi	
Tail is Class A cement with 1.0% BWOB CaCl2, 0.1 lb/sx Cello-	
-Production string will be cemented using a Lead and Tail slurry	
0.10 gps Anti-Foam, 0.05 gps Retarder, 4.0% BWOB Expanding	
Tail is Class A cement with 0.90% BWOB Dispersant, 0.30% BV	VOB Fluid Loss, 0.20% BWOB Anti-Foam, and 0.60%
BWOB Retarder.	
23) Proposed borehole conditioning procedures.	
- Fresh Water/Coal section will be conditioned by circulating air	through the drill sting at TD for between 30 to 60
minutes until well bore is clean of cuttings.	
- Intermediate section will be conditioned by circulating air and/o	or stiff foam through drill string at TD for between
30 to 120 minutes until well bore is clear of cuttings.	
- Production section will be conditioned by circulating drilling flui	id through the drill string at TD fro between 60 to 720
minutes until shakers are clear of cutting and drill string pulls fre	ee of bottom.

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APR 2 2 2013

ATTENIA TO SAIN

Well: ZMBG #5H State: West Virginia

County: Wetzel

District: Magnolia

STONE ENERGY - PROPOSED HORIZONTAL

Revision: 14-Mar-13

Permit Number: 47-103-0 Permit Issued:

AC Ground Elevation: 1334' Kelly Bushing: 18'

Rig: Spud Date:

TD Date: Rig Release Date:

PTD: 13260' MD / 6740' TVD

HOLE SIZE	PILOT HOLE FORMATION TOPS	WELLBORE DIAGRAM	CASING & CEMENTING DATA DIRECTIONAL DATA	MW & FLUID TYPE	DEV
24" Hole then Driven	40' KB (22' BGL	JIII IIIL	CONDUCTOR PIPE		Vertica
17-1/2" Hole	Shallowest FW 80' TVD Pittsburgh Coal 1142' TVD Deepest FW 1147' TVD 1300' TVD		20" x 3/8" wall L/S PE @ 40' (set in bedrock & grouted to surface) SURFACE CASING	Air / Mist	Vertic
12-1/4" Hole	Salt Water Little Lime Big Lime Top Big Injun Base of Big Injun 2240' TVD 2340' TVD 2440' TVD 2570' TVD		13-3/8" 54.5# J-55 STC @ 1300' MD/TVD Set through fresh water zones Set through coal zones Cemented to surface	Stiff Foam	Vertic
~ -	Berea Sandstone 2800' TVD Gordon Sandstone 3050' TVD		9-5/8" 36.0# J-55 LTC @ 2570' MD/TVD Set through potential salt water zones Set below base of Big Injun Cemented to surface		
8-3/4" Hole				Air / Dust	
- 8-3/4" Hole	Rhinestreet Shale 6040' TVI Cashaqua Shale 6428' TVI Middlesex Shale 6554' TVI		DP @ 6024' TVD 1) m 14 4-1-17	WBM in Curve	-
Offic -3/4" Hole in	West River Shale 6571' TVI Geneseo Shale 6640' TVI Tully Limestone 6660' TVI Hamilton Shale 6694' TVI		4-1-17		
Cateral Oil & Notes:	Marcellus Shale 6716' TVI Onondaga Limestone 6772' TVI Formation tops as per vertical pilot he Curve & lateral tops will vary due to s	ole	Landing Point (LP) @ 7249' MD / 6740' TVD ~90' angle ~331' azimuth	TD @ 13260' MD / 6740' TVD PRODUCTION CASING 5-1/2" 20.0# P-110 CDC @ 13260' MD Top of Cement @ 1570' (~1000' inside 9-5/8")	~90

103-2895

API No. 47 -	103	2895	
Operator's Well	No.	ZMBG #5H	

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	STON	E ENERGY CORPO	DRATION	OP Code	494490923	
Watershed	Tributary of	Doolin Run	Quadrangle _	New	Martinsville	-0
Elevation	1,340'	County	Wetzel	District	Magnolia	-
Description of anti	cipated Pit Waste:	The	re will not be a waste pi	t constructed on the	nis well site	-
Do you anticipate	using more than 5,0	00 bbls of water to	complete the proposed	well work? Yes	✓ No	
Will a synthetic lin	er be used in the pi	t?N/A	If so, what mil.?	N/A		
Proposed Disposal	Reuse (at A	cation nd Injection (UIC I API Number Flow b sposal (Supply form	Permit Number_Hunter ack will be stored in tanks a n WW-9 for disposal lo	and re-used at other v	, 34-121-24037, 34-121-24086 vell site)
-If oil bas Additives to be use	ed, what type? Syn ed? See Attached W	thetic, petroleum, e W-9 Addendum	tc. N/A			1)m
Will closed loop sy	stem be used ? Both	Top Hole and Horizon	ital drilling rigs will incorpora	ate the use of a close	d loop system	
Drill cuttings dispo	osal method? Leave	e in pit, landfill, rem	noved offsite, etc. Appro	oved and permitted of	site landfill	
-If left in	pit and plan to solic	lify what medium w	vill be used? Cement, li	me, N/A		
-Landfill	or offsite name/peri	nit number? wetzer	County Sanitary Landfill (S	VVF-1021/VV VO 10916	5)	_
on August 1, 2005 provisions of the p or regulation can le	, by the Office of Opermit are enforceable and to enforcement under penalty of land all attachments to believe that the information, including Signature	oil and Gas of the Wole by law. Violation action. aw that I have pershereto and that, bas formation is true, and the possibility of the possibili	Vest Virginia Departments of any term or conditions of any term or conditions on ally examined and sed on my inquiry of the accurate, and complete fine or imprisonment.	nt of Environmen ition of the general am familiar with ose individuals in . I am aware that	TER POLLUTION PERM tal Protection. I understant I permit and/or other applie the information submitted mediately responsible for t there are significant per	nd that the icable law ed on this obtaining
Company Official	(Typed Name)		Timothy P. I	McGregor		
Company Official	Title		Land Coo	rdinator		
Subscribed and sw	orn before me this_	273 day	of March	, 20	13	oeived of Oil & G
My commission ex	xpires 5	5 18 3031	CWEST N	OFFICIAL	~~~~~	

API No. 47 - 103 - 2895 Operator's Well No. ZMBG #5H

Property Boundary	Diversion -	
Road = = = = = = = = = = = = = = = = = = =	Spring	—
Existing Fence ———————————————————————————————————	Wet Spot	ጛ
Planned Fence///	Drain Pipe w/ size in inches12	_
Stream		
Open Ditch	Waterway ====	
Rock		
North .	Artificial Filter Strip XXXXXXXXXXX	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK
North N Buildings	Pit: Cut Walls	المسلسلية
	Pit: Compacted Fill Walls	m promet
Water Wells Drill Sites	Area for Land Application of Pit Waste	
Proposed Revegetation Treatment: Acres Disturbed 28	.79 Prevegetation pH _	
Lime 2.0 Tons/acre or to correct to pH	6.5	
Fertilizer (10-20-20 or equivalent) 500 - 750 lbs/acr	e (500 los minimum)	
Mulch 0.50 to 0.75 TPA + Straw Tons/acre		
Seed M	/lixtures	
Area I	Area II	
Area I Seed Type lbs/acre	Area II Seed Type	lbs/acre
Seed Type lbs/acre	Seed Type	lbs/acre
Seed Type lbs/acre Marcellus Mix 100.0	Seed Type Marcellus Mix	lbs/acre 100.0
Seed Type lbs/acre Marcellus Mix 100.0 White or Ladino Clover 10.0	Seed Type Marcellus Mix White or Ladino Clover	100.0 10.0
Seed Type Ibs/acre Marcellus Mix 100.0 White or Ladino Clover 10.0 Orchard Grass 40.0	Seed Type Marcellus Mix White or Ladino Clover Orchard Grass Winter Rye	100.0 10.0 40.0
Marcellus Mix 100.0 White or Ladino Clover 10.0 Orchard Grass 40.0 Winter Rye 50.0 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Seed Type Marcellus Mix White or Ladino Clover Orchard Grass Winter Rye	100.0 10.0 40.0 50.0
Seed Type Ibs/acre Marcellus Mix 100.0 White or Ladino Clover 10.0 Orchard Grass 40.0 Winter Rye 50.0 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Seed Type Marcellus Mix White or Ladino Clover Orchard Grass Winter Rye tion.	100.0 10.0 40.0 50.0
Marcellus Mix 100.0 White or Ladino Clover 10.0 Orchard Grass 40.0 Winter Rye 50.0 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Seed Type Marcellus Mix White or Ladino Clover Orchard Grass Winter Rye tion.	100.0 10.0 40.0 50.0
Marcellus Mix 100.0 White or Ladino Clover 10.0 Orchard Grass 40.0 Winter Rye 50.0 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Seed Type Marcellus Mix White or Ladino Clover Orchard Grass Winter Rye tion.	100.0 10.0 40.0 50.0
Marcellus Mix 100.0 White or Ladino Clover 10.0 Orchard Grass 40.0 Winter Rye 50.0 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Seed Type Marcellus Mix White or Ladino Clover Orchard Grass Winter Rye tion.	100.0 10.0 40.0 50.0

west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP-01200

API/ID Number

047-103-02895

Operator:

Stone Energy Corporation

ZMBG #5H

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Multi-site impoundment

Source ID: 17038 Source Name

Pribble Freshwater Impoundment

Source start date:

2/1/2014

Source end date:

2/1/2015

Source Lat:

39.685144

Source Long:

-80.820002

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

7,352,200

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-277

APPROVED MAY 28 2031

WMP-01200 API/ID Number 047-103-02895 Operator: Stone Energy Corporation

ZMBG #5H

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Recycled Frac Water

Source ID: 17039 Source Name Varioius Source start date: 2/1/2014
Source end date: 2/1/2015

Source Lat: Source Long: County

Max. Daily Purchase (gal)

Total Volume from Source (gal): 347,800

DEP Comments:

west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP-01201

API/ID Number

047-103-02896

Operator:

Stone Energy Corporation

ZMBG #7H

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Multi-site impoundment

Source ID: 17040 Source Name

Pribble Freshwater Impoundment

Source start date:

2/1/2014

Source end date:

2/1/2015

Source Lat:

39.685144

Source Long:

-80.820002

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

4,902,200

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-277

APPROVED HAY 28 YM

WMP-01201 API/ID Number 047-103-02896 Operator: Stone Energy Corporation

ZMBG #7H

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Recycled Frac Water

Source ID: 17041 Source Name Various Source start date: 2/1/2014

Source end date: 2/1/2015

Source Lat: Source Long: County

Max. Daily Purchase (gal)

Total Volume from Source (gal): 347,800

DEP Comments:

Form W-9

P.O. BOX 647 GRANTSVILLE, WV 26147

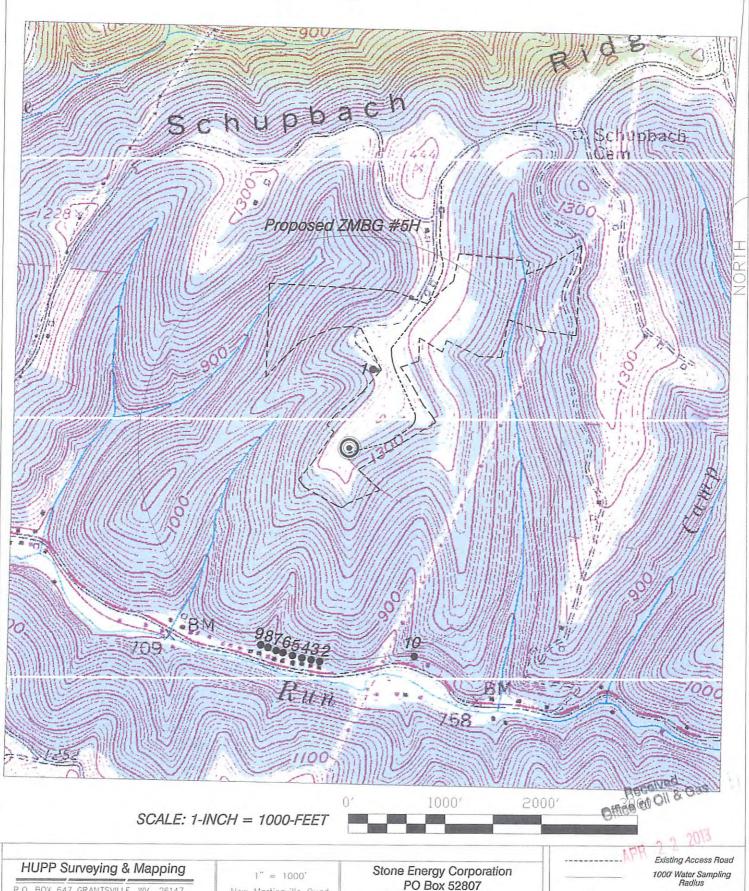
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

New Martinsville Quad

STONE ENERGY CORP. ZMBG #5H WATER

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07/05/2013



Lafayette, LA 70508

