



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 15, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-7700620, issued to ENERPLUS RESOURCES (USA) 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 feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: BOLYARD 1-4H
Farm Name: BOLYARD, RUBY DONALDA

API Well Number: 47-7700620

Permit Type: Horizontal 6A Well

Date Issued: 06/15/2015

Promoting a healthy environment.

06/19/2015

PERMIT CONDITIONS

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

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. 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: Enerplus Resources (USA) Corporation 49449649 Preston Reno Fellowsville
Operator ID County District Quadrangle

2) Operator's Well Number: Bolyard 1-4H Well Pad Name: Bolyard 1

3) Farm Name/Surface Owner: Bolyard Public Road Access: Herm Criss Road

4) Elevation, current ground: 1700 Elevation, proposed post-construction: 1700

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus Shale top at 8076' TVD. 96' Total Thickness. Expected Pressure is 5,700 psi.

8) Proposed Total Vertical Depth: 8150'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12,871'

11) Proposed Horizontal Leg Length: 4,263'

12) Approximate Fresh Water Strata Depths: 200' and 300'-365'

13) Method to Determine Fresh Water Depths: USGS water well data; Nearest offset well is 202'; Bolyard 1-8 mudlog

14) Approximate Saltwater Depths: 2000'

15) Approximate Coal Seam Depths: 285' (Freeport), 605' (Middle Kittaning), 660' (Lower Kittaning)

16) Approximate Depth to Possible Void (coal mine, karst, other): 610' (Middle Kittaning Coal Seam)

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

GES 6/2/15

(a) If Yes, provide Mine Info: Name: The Whitetail Kittaning mine has been reclaimed and sealed.

Depth: _____

Seam: _____

Owner: _____

WW-6B
(9/13)

18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling</u>	<u>INTERVALS: Left in Well</u>	<u>CEMENT: Fill-up (Cu. Ft.)</u>
Conductor	26"	New	K-42	-	40	40	Cement to surface
Fresh Water	20"	New	K-55	94	415	415	Cement to surface
Coal	13 5/8"	New	J-55	54.5	710	710	Cement to surface
Intermediate	9 5/8"	New	J-55	360	2500	2500	Circulate to surface
Production	5 1/2"	New	P-110	20	12870	12870	Cement to 2,000'
Tubing	2 3/8"	New	J-55	4.7	-	-	-
Liners	-	-	-	-	-	-	-

<u>TYPE</u>	<u>Size</u>	<u>Wellbore Diameter</u>	<u>Wall Thickness</u>	<u>Burst Pressure</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	28"	26"	-	-	Class A/15.6 ppg	-
Fresh Water	20"	24"	0.438	2110	Class A/15.6 ppg	1.38
Coal	13 3/8"	17 1/2"	.760	2730	Class A/15.6 ppg	1.38
Intermediate	9 5/8"	12 1/4"	0.704	3520	Class G/15.7 ppg	1.29
Production	5 1/2"	8 1/2"	0.722	16660	Class G/14.7 ppg	1.37
Tubing	2 3/8"	NA	0.474	7700	NA	NA
Liners	NA	NA	NA	NA	NA	NA

PACKERS

Kind:				
Sizes:				
Depths Set:				

GOB
6/2/15

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

Mobilize the drill rig. Drill a horizontal Marcellus gas well. Drill vertically to kick-off point at 4916 MD. The hole will be drilled with air, at a minimum, until the freshwater protection casing is cemented to surface. Drill a 24 degree tangent out to corner point then build a main curve to land at 8607' MD (8150 TVD) and drill horizontally to TD approximately 12,576.5 MD. Run and cement casing. Demobilize the drill rig and mobilize the completion equipment. Complete well: perforate, fracture, stimulate, clean-out, run tubing, unload and test gas well. Set production equipment and tanks. If a void is encountered casing will be run no more than 50' beyond void depth and the hole and casing will be adjusted and cement baskets will be run on either side of the void. Remedial cement procedures will be used as necessary to supplement cement volumes if cement return are not seen at the surface while cementing the 9 5/8".

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

Fracturing method is 100 mesh and 40/70 sand slick water job. Will be using approximately 2000 gallons of 15% acid per stage. All water will contain scale inhibitor (0.25 gpt), biocide (0.25 gpt), and O2 scavenger (0.1 gpt). Anticipated maximum slurry rate is 80 bpm, max treating pressure is approximately 8500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.39

22) Area to be disturbed for well pad only, less access road (acres): 3.07

23) Describe centralizer placement for each casing string:

Surface and Intermediate Strings - centralizers will be placed on the first two joints and then every other joint. Lateral Strings - centralizers will be placed on every joint from the top of the curve then every fourth joint from the top of the curve to the intermediate casing string.

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

See Attachment

GC
6/2/15

25) Proposed borehole conditioning procedures:

Circulate BU until hole is clean and mud is conditioned for cementing. Circulate as many bottom-up as necessary once casing is on the bottom to confirm full returns before cementing. If any losses are noted, stop and circulate LCM pill around to ensure losses will not be lost during cementing.

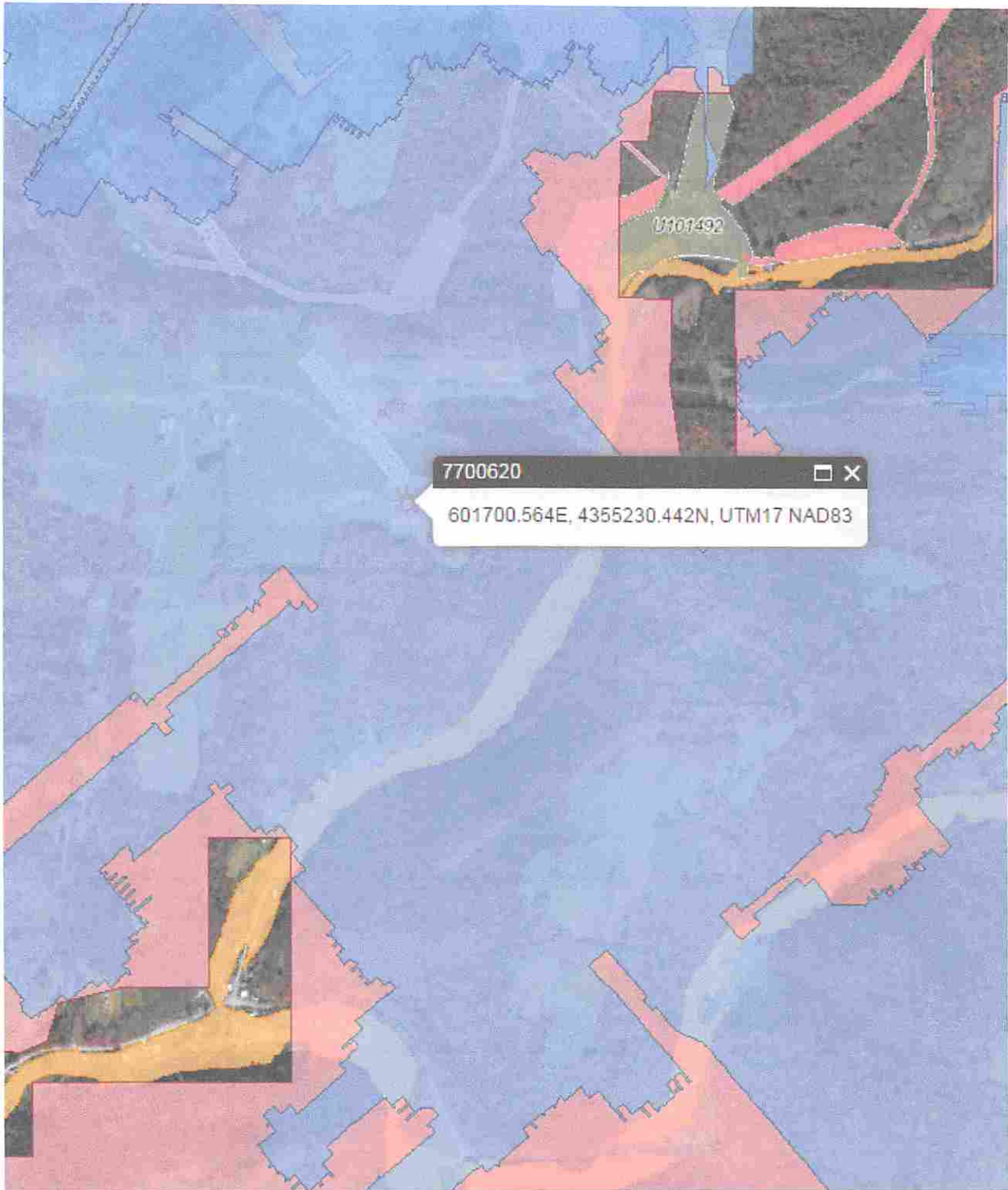
*Note: Attach additional sheets as needed.

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

Freshwater/Coal protection string: These respective 20" and 13 3/8" strings will be cemented back to surface with Class A Portland cement, containing no additional additives. Should a void be encountered, the 13 3/8" casing will be run to a depth of 50' below the void and cemented back to the surface using cement baskets above and below the void.

Intermediate cement (for 9 5/8" string): will contain retarder/extender to allow all cement to be pumped into the annulus and accelerator to speed the cement hardening process once it begins. Other cement additives used will be an expansion agent to provide complete bonding/fill between the casing and the hole and gas-block product, used to prevent migration of gas up the liquid cement before it hardens. As in the surface job, lost material will be added if necessary.

Production cement (for 5 1/2" string): will contain additional retarder/extender to allow all cement to be pumped into the annulus and accelerator to speed the cement hardening process once it begins. This cement blend will contain additional gas migration/gas block additive to prevent gas from migrating from the producing zone through the cement while the cement is still liquid. The production cement contains a solubility enhancer to ensure that the large volume of production cement pumped will thoroughly blend with dry additives and mix water before being pumped downhole.



8. The WW9 is showing no pit and no closed loop system being used. What is being used to collect the drill cuttings?
9. Add updated collision avoidance plan adhering to the current guidance (attached).

WW-9
(9/13)

API Number 47 - 77 ⁰⁵⁶²⁶ - 00587
Operator's Well No. Bolyard 1-4H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Enerplus Resources (USA) Corporation OP Code 49449649

Watershed (HUC 10) Left Fork Quadrangle Fellowsville, WV

Elevation 1614 County Preston District Reno

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number Colebank 1-7HG/API: 047-077-00603)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: 3-400 barrel mud tanks; fluid centrifuged to remove solids; solids stored in hoppers

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Curve and lateral synthetic oil based mud. Vertical hole drilled with air and brine water.

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? See attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? Tucker County Landfill, P.O. Box 445, Davis, WV 26260 Permit# SWF-8295-WV0109126

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Tony Lucero

Company Official (Typed Name) Tony Lucero

Company Official Title Lead, Regulatory Programs

Subscribed and sworn before me this 15 day of April, 2015

Barbara Luke

My commission expires 5/27/2017



06/19/2015

4707700620

Form WW-9

Operator's Well No. Bolyard 1-4H

Enerplus Resources (USA) Corporation

Proposed Revegetation Treatment: Acres Disturbed 11.3 +/- Prevegetation pH 6.5
 Lime ⁶ _____ Tons/acre or to correct to pH 6.5
 Fertilizer type 10-20-20
 Fertilizer amount 500 lbs/acre
 Mulch 2 to 3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Annual Rye	10	Annual Rye	10
Ladino Clover	5	Ladino Clover	5
Birdsfoot Trefoil	10	Birdsfoot Trefoil	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Haynes J. Kirtland

Comments:

Title: INSPECTION

Date: 11/13/2014

Field Reviewed? () Yes

() No

RECEIVED
Office of Oil and Gas

DEC 01 2014

WV Department of
Environmental Protection

06/19/2015

**ADDITIONAL ADDITIVES
ENERPLUS RESOURCES (USA) CORPORATION
BOLYARD 1-4H**

The following additives may be used for drilling at the Bolyard 1-4H Well:

Base Oil	Mil-Graphite
Calcium Chloride Flake	Mil-Lime
Carbo-Gel	Mil Pac LV
Carbo-TEC	Mil Pac
Carbo-Trol HT	Mil Sorb
Caustic Soda	Mil Starch
Citric Acid	Milmica Fine
Conqor	New Drill
Defoam	Omni-Cote
DFE 459	Potassium Chloride
LC Glide	Rheo-Sweep
Magma Fiber	Salt
Mil-Bar Big Bag	Shrink Wrap
Mil-Bar	Soda Ash
Mil Carb	Walnut - Medium
	Xan-Plex

Note: Additional additives may be requested as operation permits. The SDS for the additives will be available onsite.

RECEIVED
Office of Oil and Gas

APR 15 2015

WV Department of
Environmental Protection

06/19/2015

4707700621

enerPLUS

U.S. Operations – Eastern Business Unit
Appalachian District
950 17th Street, Suite 2200
Denver, CO 80202
(720) 279-5500

SITE SAFETY PLAN

MJK
5/13/2015

LAUREL PROJECT – WEST VIRGINIA

Bolyard 1-4H

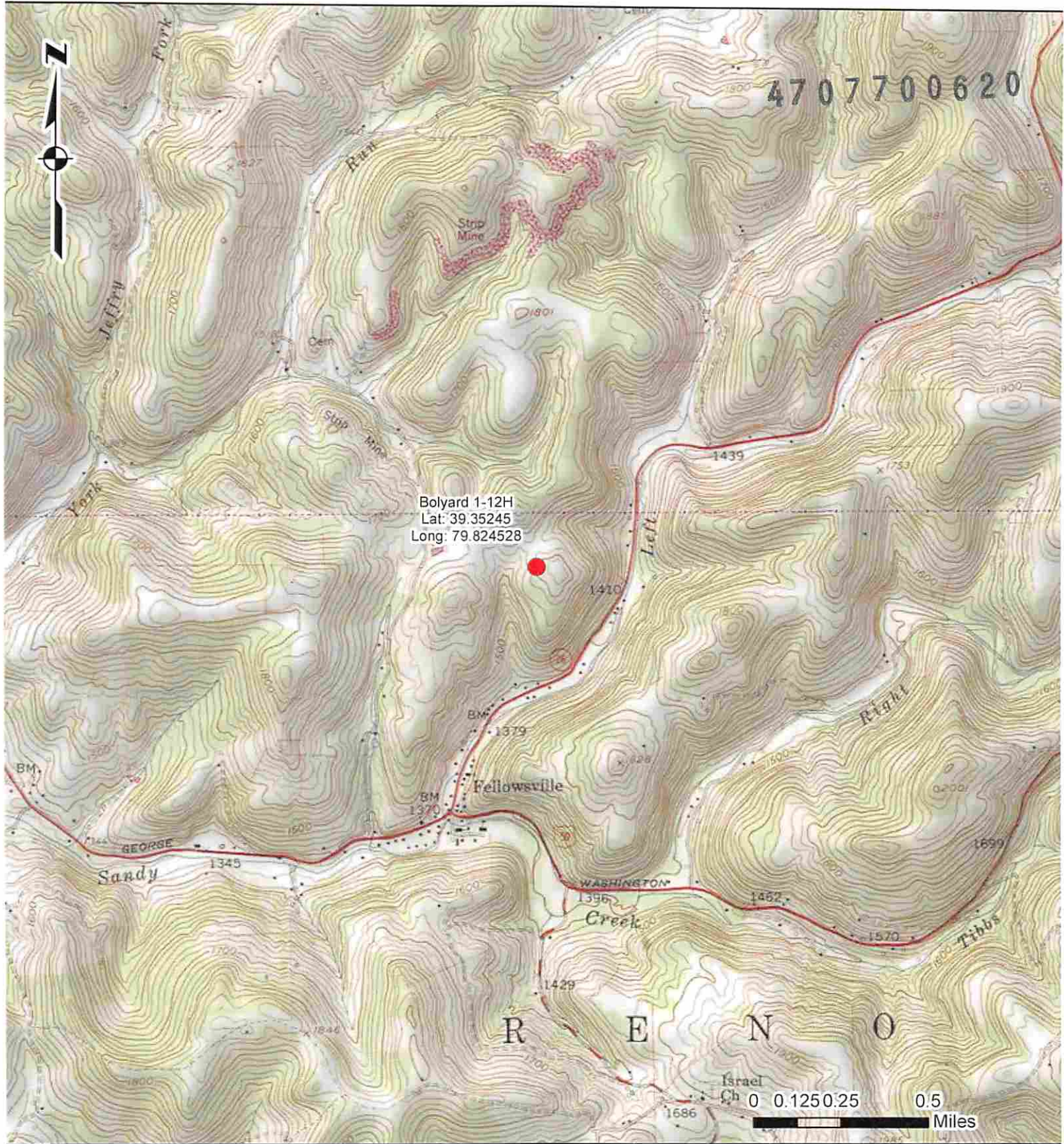
July 9, 2012

REV: 3 (April 30, 2015)

Prepared by:

HRL Compliance Solutions, Inc.
10 Emerson Lane Ste. 806
Bridgeville, PA 15017
(412) 564-5536

06/19/2015



Map Features

- Bolyard 1-12H



RECEIVED
 Office of Oil and Gas
 Date: 07/12/2012

DEC 01 2014
 WV Department of
 Environmental Protection

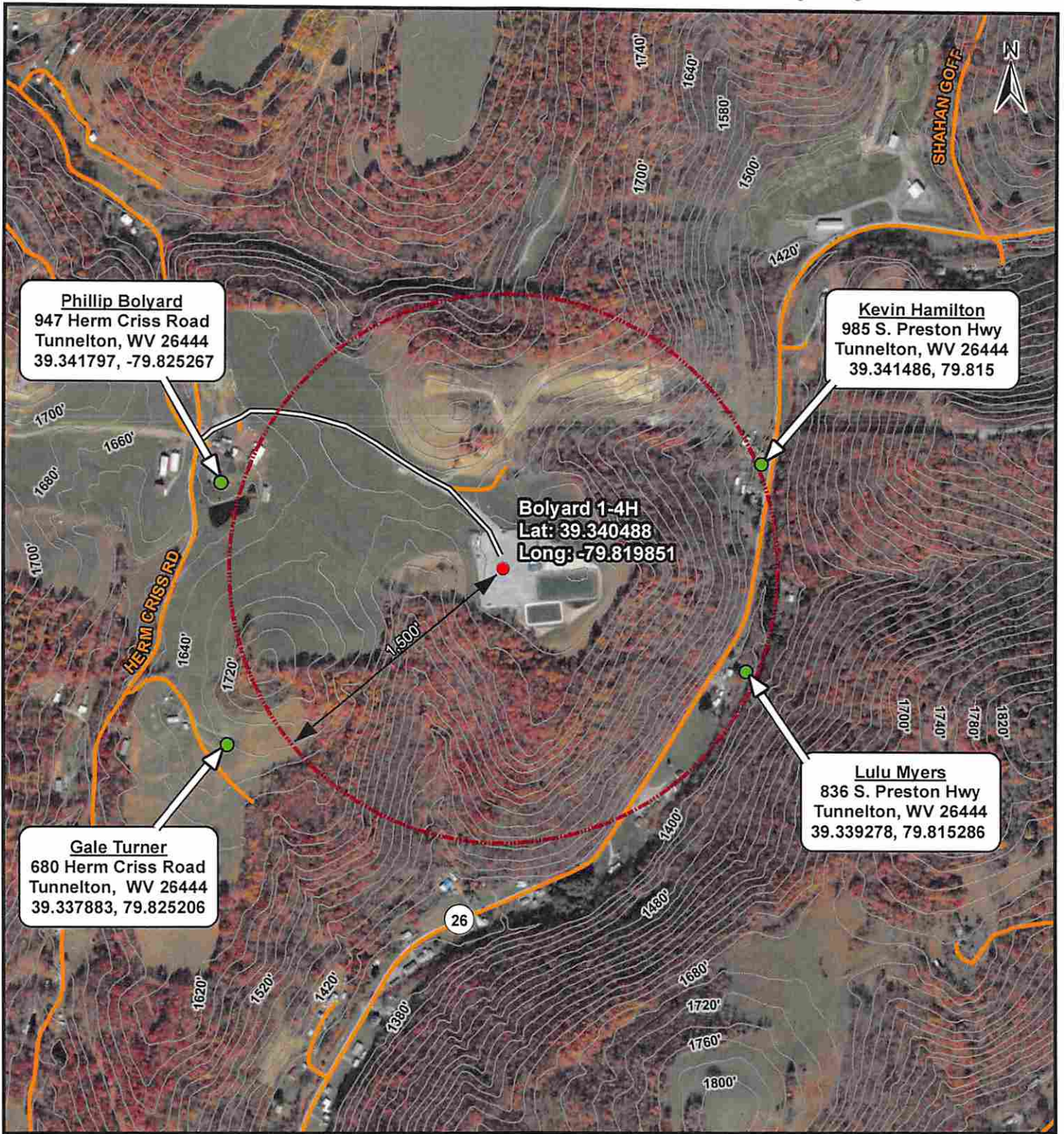
Bolyard 1-12H

Fig. 1
 Topographic Site Location Map



DISCLAIMER: This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the original survey. Information contained in official government records, such as the County Clerk and Records office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.

06/19/2015



Phillip Bolyard
 947 Herm Criss Road
 Tunnelton, WV 26444
 39.341797, -79.825267

Kevin Hamilton
 985 S. Preston Hwy
 Tunnelton, WV 26444
 39.341486, 79.815

Bolyard 1-4H
 Lat: 39.340488
 Long: -79.819851

Lulu Myers
 836 S. Preston Hwy
 Tunnelton, WV 26444
 39.339278, 79.815286

Gale Turner
 680 Herm Criss Road
 Tunnelton, WV 26444
 39.337883, 79.825206

- Bolyard 1-4H Pad
- Landowners with Water Wells
- Pad Access Road
- Local Road
- 20' Contours
- ▭ 1500' Buffer



enerPLUS

**Bolyard 1-4H
 Water Well Map**

39.340488 -79.819851



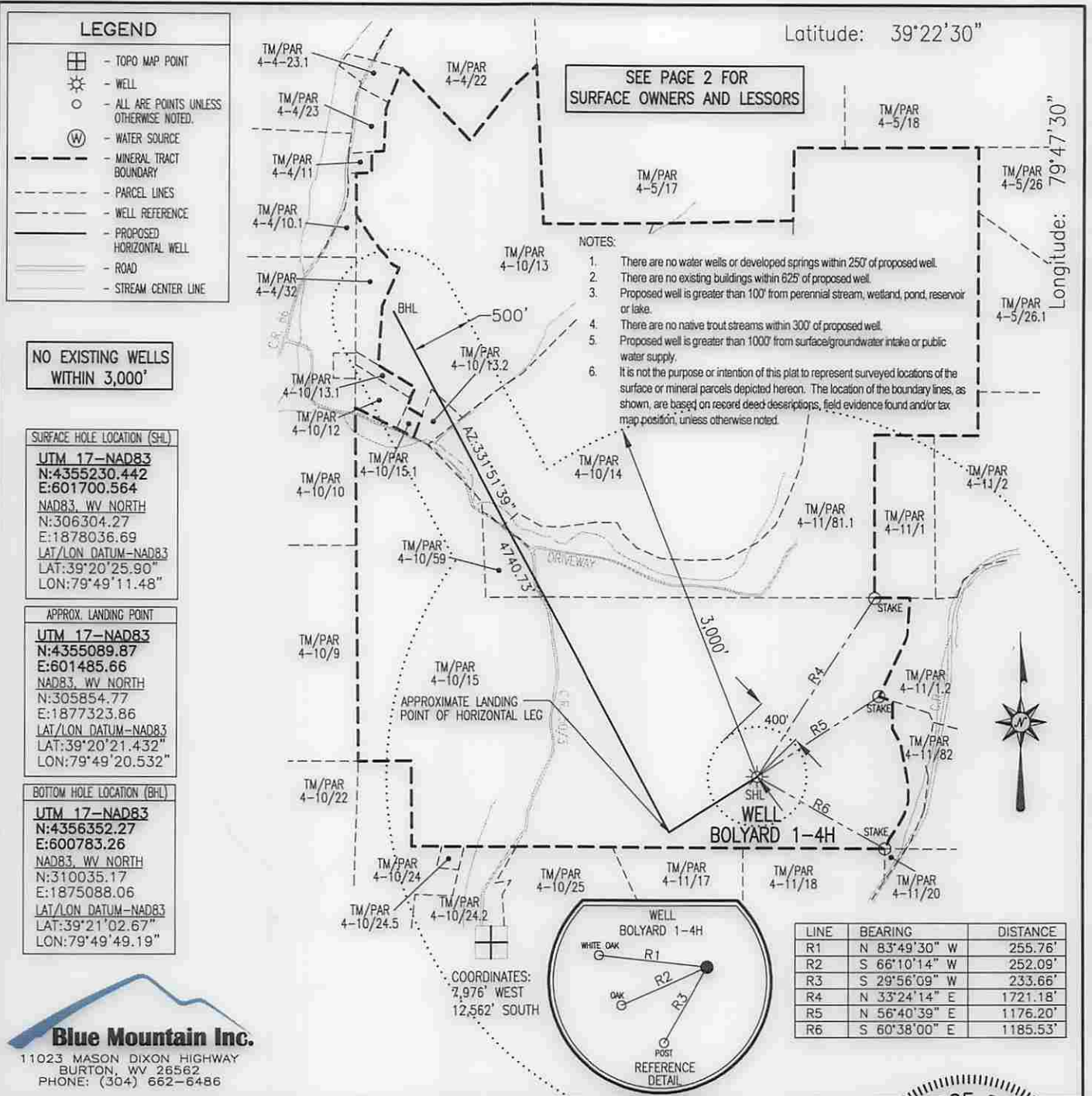
Author: R. Young

Revision: 0

Date: 11/17/2014

06/19/2015

*No water purveyers located within 1500'



FILE #: BOLYARD 1-4H REV. 4
 DRAWING #: BOLYARD 1-4H REV. 4
 SCALE: 1" = 1200'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
 R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: OCTOBER 13, 2014
 OPERATOR'S WELL #: BOLYARD 1-4H
 API WELL #: 47 77 0062046A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: LITTLE SANDY CREEK ELEVATION: 1700.00'

COUNTY/DISTRICT: PRESTON / RENO QUADRANGLE: FELLOWSVILLE, WV 7.5'

SURFACE OWNER: RUBY DONALDA BOLYARD ACREAGE: 270.50±

OIL & GAS ROYALTY OWNER: RUBY DONALDA BOLYARD ACREAGE: 559.90±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,150.0'± TMD: 12,871'±

WELL OPERATOR: ENERPLUS RESOURCES (USA) CORPORATION DESIGNATED AGENT: TERRY STAMPER
 Address: 950 17th STREET, SUITE 2200 Address: 5400 D BIG TYLER ROAD
 City: DENVER State: CO Zip Code: 80202 City: CHARLESTON State: WV Zip Code: 25313

06/19/2015

BOLYARD 1-4H

PAGE 2 OF 2

DIST-TM/PAR	SURFACE OWNER
4-4/10.1	MATTHEW & RITA MURRAY
4-4/11	KRISTOPHER PYSELL
4-4/22	JERRY R. & CATHY L. SHAY
4-4/23	ORPHA INEZ FUNK HEIRS & IRIS LEOTA FUNK - LIFE
4-4/23.1	DAVID & DEBORAH HIBBS
4-4/32	MARK KENDALL & IDA J. PYSELL
4-5/17	ALLEGHENY FORESTLANDS LLC
4-5/18	KEITH WALTER & JILL M. ZAIS
4-5/26	JOHN ADAM GOWER
4-5/26.1	PAULINE L. SHAHAN
4-10/9	MADELINE LAREW - ORILLEY
4-10/10	NILS NICHOLS & ELISABETH BLAUG
4-10/12	TERRISHIE L. FUNK
4-10/13	TERRY E. PYSELL
4-10/13.1	TERRISHIE L. FUNK
4-10/14	CARL W. LAREW
4-10/15	RUBY DONALDA BOLYARD
4-10/15.1	TERRY PYSELL
4-10/22	DAVID L. MCDANIEL
4-10/24	CRAIG A. HERSHMAN/ERIC D. GLOTFELTY
4-10/24.5	CHARLES E. BOLYARD
4-10/25	JERRY & LINDA SHILLINGBURG
4-10/59	ALAN DALE & JESSICA POLING/ROBERT GAINER - LIFE
4-11/1	MATHEW W. & MARCIA M. DERRICK & LUTHER H. SHAHAN - LIFE
4-11/1.2	KINGWOOD MINING COMPANY LLC
4-11/2	DANI R. KELLEY
4-11/17	CHRISTOPHER P. RANKIN
4-11/18	GLENN EARL KNOTTS
4-11/20	ROBERT D. COX
4-11/81.1	KINGWOOD MINING COMPANY LLC
4-11/82	KEVIN K. & DIANE HAMILTON

GAS LESSORS		
TAX MAP#	PARCEL#	OIL & GAS ROYALTY OWNERS
4-10	15	RUBY DONALDA BOLYARD
4-11	81.1	RUTH JEAN POLING
4-10	14	CARL W. & LALAH L. LAREW
4-10	13	TERRY E. & JOYCE PYSALL

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
 N:4355230.442
 E:601700.564
 NAD83, WV NORTH
 N:306304.27
 E:1878036.69
 LAT/LON DATUM-NAD83
 LAT:39°20'25.90"
 LON:79°49'11.48"

APPROX. LANDING POINT
UTM 17-NAD83
 N:4355089.87
 E:601485.66
 NAD83, WV NORTH
 N:305854.77
 E:1877323.86
 LAT/LON DATUM-NAD83
 LAT:39°20'21.432"
 LON:79°49'20.532"

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
 N:4356352.27
 E:600783.26
 NAD83, WV NORTH
 N:310035.17
 E:1875088.06
 LAT/LON DATUM-NAD83
 LAT:39°21'02.67"
 LON:79°49'49.19"

47-077-00620

06/19/2015

OCTOBER 13, 2014

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

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

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

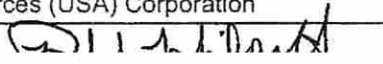
Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
04-10-15 (Wellbore)	Kenneth P. and Ruby Bolyard	Magnum Land Services, LLC	12.50%	685/871
04-10-59 (Wellbore)	Ruth Jean Poling	Magnum Land Services, LLC	12.50%	685/600
04-10-59 (Wellbore)	WV Department of Transportation	Magnum Land Services, LLC	15.00%	736/975
04-10-14 (Wellbore)	Carl W. and Lalah L. Larew	Magnum Land Services, LLC	12.50%	685/839
04-10-13 (Wellbore), 04-10-13.2 (Wellbore)	Terry & Joyce Pysell	Magnum Land Services, LLC	12.50%	685/851
04-11-81.1 (Wellbore)	Acin LLC	Enerplus Resources (USA) Corp	18.75%	733/346
04-11-17	Christopher P Rankin	Magnum Land Services, LLC	12.50%	735/323
04-11-82	Kevin & Diane M Hamilton	Magnum Land Services, LLC	12.50%	734/89
04-10-15.2, 04-11-83	Kenneth P. and Ruby Bolyard	Magnum Land Services, LLC	12.50%	685/871

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

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

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

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

Well Operator: Enerplus Resources (USA) Corporation
By: Debbie Wilbolt 

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APR 23 2015

WV Department of
Environmental Protection
06/19/2015

4707700620

WW-6A1
(5/13)

Operator's Well No. Bolyard 1-4H

4707700620

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Kenneth P. and Ruby Bolyard	Magnum Land Services, LLC	12.50%	685/871
	Magnum Land Services, LLC	Enerplus Resources (USA) Corporation	Assign	725/326
	Ruth Jean Poling	Magnum Land Services, LLC	12.50%	685/600
	Magnum Land Services, LLC	Enerplus Resources (USA) Corporation	Assign	725/326
	Carl W. and Lalah L. Larew	Magnum Land Services, LLC	12.50%	685/839
	Magnum Land Services, LLC	Enerplus Resources (USA) Corporation	Assign	725/326

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

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

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WV Department of
Environmental Protection

Well Operator: Enerplus Resources (USA) Corporation
By: Timothy Miller
Its: Landman

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APR 23 2015

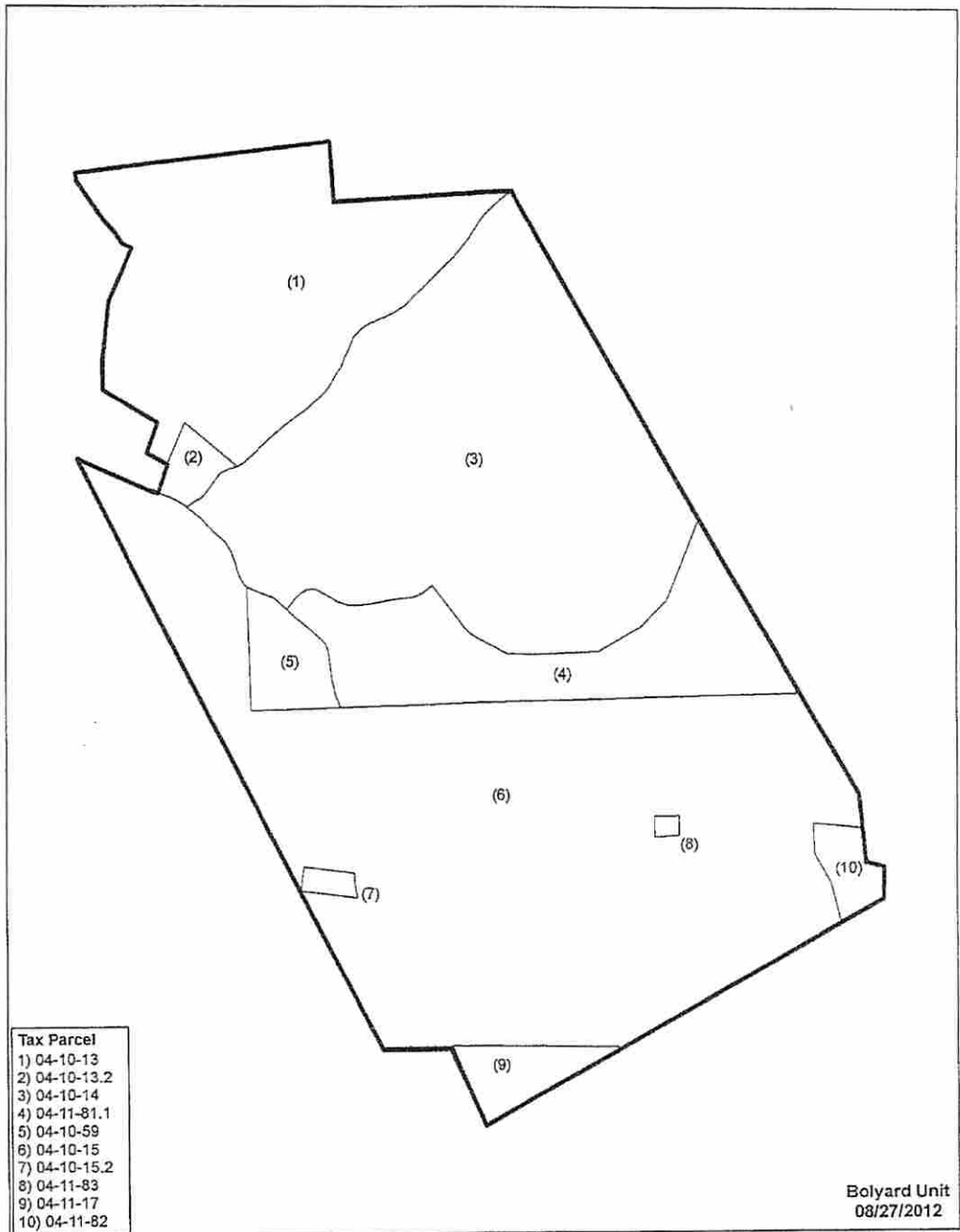
Page 1 of 1

WV Department of
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4707700620



Unit Area
362.34 Acres

BOLYARD UNIT

Preston County, WV

enerPLUS 4707700620

06/19/2015

4707700620

AMENDED DECLARATION AND NOTICE OF POOLED UNIT

BOLYARD UNIT

WHEREAS, Enerplus Resources (USA) Corporation ("Enerplus") prepared that certain Declaration and Notice of Pooled Unit for the Bolyard Unit dated February 28, 2012, effective as of January 27, 2012, which was recorded at Book 743, Page 782 of the records of Preston County, West Virginia (" Bolyard Declaration of Pooled Unit"), to evidence the pooling, unitization and combination of its leasehold estates, hereinafter referred to as the "Leases." And;

WHEREAS, Enerplus is exercising its authority granted under the Leases to pool, unitize, and reform, enlarge and/or reduce a unit or pool, covering all or any part or parts of the lease premises. And, whereas, Enerplus desires to reduce the size and configuration of the Bolyard Declaration of Pooled Unit to 362.34 acres and to replace the Exhibit "A" and Exhibit "B" thereto with the attached Amended Exhibit "A" and Amended Exhibit "B."

NOW THEREFORE, Enerplus hereby amends the Bolyard Declaration of Pooled Unit and replaces Exhibit "A" and Exhibit "B" with the attached Amended Exhibit "A" and attached Amended Exhibit "B".

ENERPLUS RESOURCES (USA) CORPORATION

By: Carla Konopka
Carla Konopka
Manager, US Lands

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APR 15 2015

WV Department of
Environmental Protection

CORPORATE ACKNOWLEDGMENT

STATE OF Colorado)
) ss.
COUNTY OF Denver)

On this, the 28th day of August, 2012, before me, Madalyn M. Runge, the undersigned, personally appeared Carla Konopka, who acknowledged herself to be the Land Manager, US for and on behalf of Enerplus Resources (USA) Corporation and that she as such Land Manager, US Lands, of Enerplus Resources (USA) Corporation and being duly authorized to do so, executed the foregoing instrument for the purpose therein contained by signing for and on behalf of the corporation by herself as Land Manager, US, for Enerplus Resources (USA) Corporation.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires:
November 25, 2012



Madalyn M. Runge
Madalyn M. Runge, Notary Public
950 17th Street, Suite 2200
Denver, CO 80202

Please return recorded documents to:
Enerplus Resources (USA) Corporation
950 17th Street, Suite 2200
Denver, CO 80202

PREPARED BY:
PAMELA LOVATO
Enerplus Resources (USA) Corporation

06/19/2015

4707700620
BOOK 0749 PAGE 0427

Attached to and made a part of that Declaration and Notice of Pooled Unit prepared February 28, 2012, but made effective January 27, 2012 by Enerplus Resources (USA) Corporation
 Amended Exhibit "A"
 Bolyard Unit
 Reno District
 Preston County, West Virginia

Lease No.	Lessor	Lease Date	Book	Page	Entry	Tract Legal Description	Lease Net Ac	Unit Net Ac
12913	TERRY & JOYCE PYSSELL	6/11/2007	685	851	80758	DISTRICT - RENO - TAX ID 04-010-13	85.0500	59.83
12913	TERRY & JOYCE PYSSELL	6/11/2007	685	851	80758	DISTRICT - RENO - TAX ID 04-010-13.2	1.9300	2.55
12893	CARL & LALAH LAREW	7/25/2007	685	839	80756	DISTRICT - RENO - TAX ID 04-010-14	112.2000	100.34
14447	ACIN LLC	5/4/2011	0733	346	145339	DISTRICT - RENO - TAX ID 4-11-81.1 TOP OF THE HAMILTON GROUP TO 100 FT BELOW BASE OF MARCELLUS FM	118.8900	31.56
12910	RUTH JEAN POLING/WV DoT	8/17/2007	685	600	80701	DISTRICT - RENO - TAX ID 04-010-59	8.11	6.18
14664	WV DEPT OF TRANS	7/21/2011	736	975	149719	DISTRICT - RENO - TAX ID 04-010-59 PT	1.87	
12824	KENNETH P AND RUBY BOLYARD BRANDON BOLYARD	6/12/2007	685	871	80762	DISTRICT - RENO - TAX ID 04-010-15	233.742	151.50
			700	070	--	DISTRICT - RENO - TAX ID 04-010-15.2	1.00	1.00
						DISTRICT - RENO - TAX ID 04-011-83	0.39	0.39
						FORMATIONS BELOW 2000 FEET FROM THE SURFACE		
14538	CHRISTOPHER P FRANKIN	6/15/2011	735	323	147431	DISTRICT - RENO - TAX ID 04-011-17	21.6500	5.58
14462	KEVIN AND DIANE M HAMILTON	1/27/2011	734	89	146295	DISTRICT - RENO - TAX ID 4-11-82	5.4000	3.41
Total Acres in Unit:								362.34

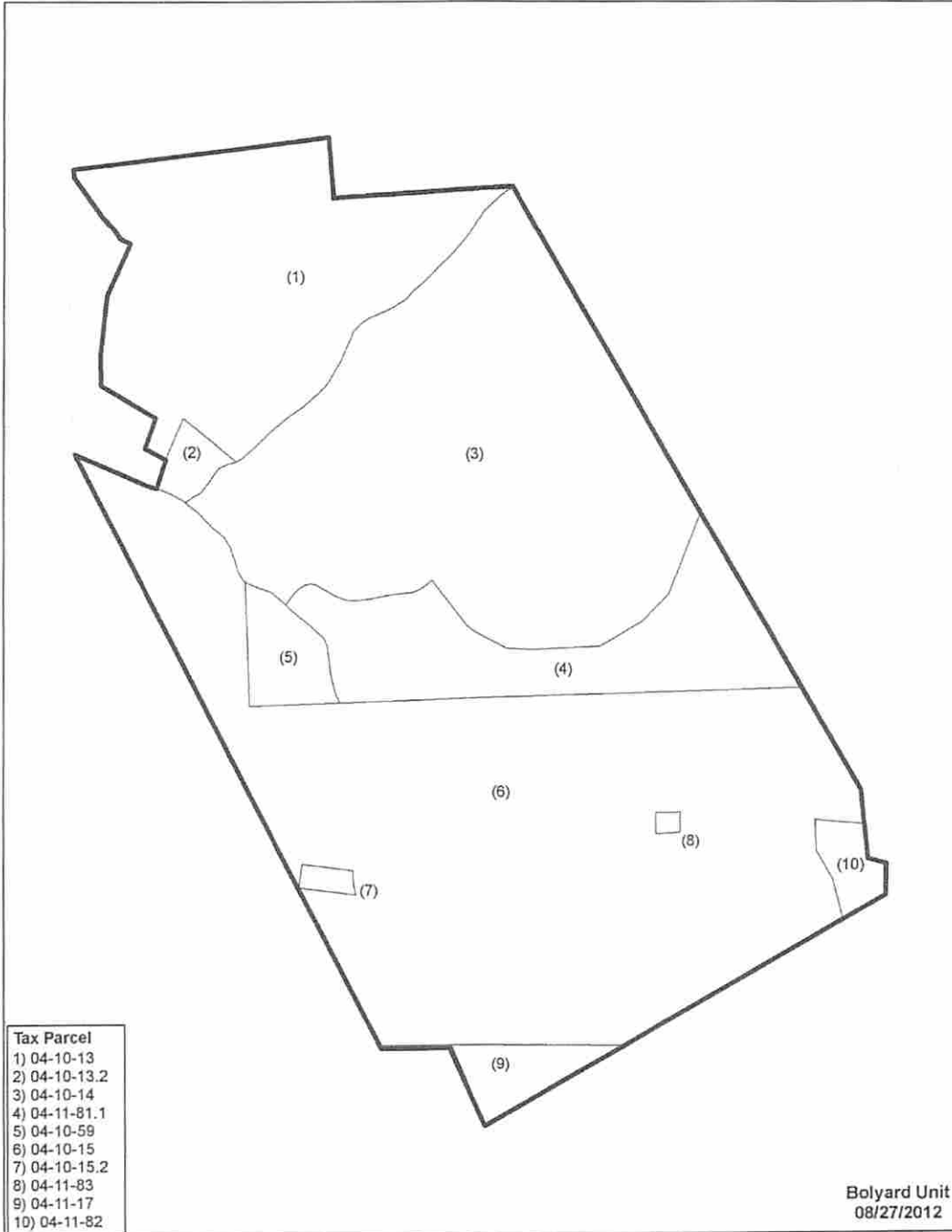
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WV Department of
Environmental Protection

Exhibit "B"
Amended 8/27/12

Attached to and made a part of that Declaration and Notice of Pooled Unit prepared February 28, 2012, but made effective January 27, 2012, by Enerplus Resources (USA) Corporation, as Operator.



Unit Area
362.34 Acres

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APR 15 2015
BOLYARD UNIT
WV Department of
Preston County, WV
Environmental Protection

enerPLUS

Linda Hussins
Preston County 01:10:21 PM
Instrument No 171134
Date Recorded 09/04/2012
Document Type HISS/D
Pages Recorded 3
Book-Page 769-626
Recording Fee \$5.00
Additional \$6.00

06/19/2015

October 10, 2014

West Virginia Department of Natural Resources
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

RE: Road Crossing for Bolyard 1-4H

Dear Sir or Madam,

Upon investigation of the proposed path of the Bolyard 1-4H wellbore, it has been determined that the path will not cross under any state and/or county owned or maintained roadway.

Best regards,



Timothy Miller
Landman

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Office of Oil and Gas

DEC 01 2014

WV Department of
Environmental Protection

Enerplus Resources (USA) Inc.
950 17th Street, Suite 2200
Denver, CO 80202-5550

06/19/2015

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

Date of Notice Certification: 10/01/2014

API No. 47- 77 - 82

Operator's Well No. Bolyard 1-4H

Well Pad Name: Bolyard 1

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: West Virginia
County: Preston
District: Reno
Quadrangle: Fellowsville, WV
Watershed: Left Fork

UTM NAD 83 Easting: E:1878036.69
Northing: N:306304.27
Public Road Access: Herm Criss Road
Generally used farm name: Bolyard

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input checked="" type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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Required Attachments:

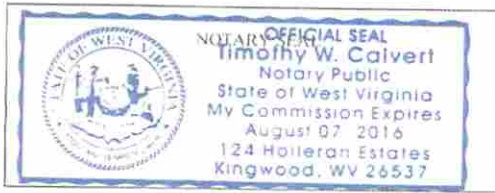
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been notified as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

DEC 01 2014

Certification of Notice is hereby given:

THEREFORE, I Tim Miller (Enerplus), have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	<u>Enerplus Resources (USA) Corporation</u>	Address:	<u>950 17th Street, Suite 2200</u>
By:	<u>Tim Miller <i>Tim Miller</i></u>		<u>Denver, Colorado 80202</u>
Its:	<u>Landman</u>	Facsimile:	<u>304-441-2209</u>
Telephone:	<u>304-685-7979</u>	Email:	<u>tmiller@enerplus.com</u>



Subscribed and sworn before me this 1ST day of OCTOBER
Timothy W. Calvert Notary Public
 My Commission Expires AUGUST 7, 2016

Oil and Gas Privacy Notice:

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

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 Office of Oil and Gas
 DEC 01 2014
 WV Department of
 Environmental Protection

4707700620

WW-6A
(9-13)

API NO. 47-77
OPERATOR WELL NO. 49449649
Well Pad Name: Bolyard 1

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 11/05/2014 Date Permit Application Filed: 11/21/2014

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(S)
Name: Ruby Bolyard (Kenneth Bolyard - deceased)
Address: 650 Horn Crisis Road
Tunnelton, WV 26444

COAL OWNER OR LESSEE
Name: Natural Resources Partners, LLC
Address: 5263 Irwin Brian
Huntington, WV 25705

Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(S) (Road and/or Other Disturbance)
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(S)
Name: Gale Turner
Address: 650 Horn Crisis Road
Tunnelton, WV 26444

Name: _____
Address: _____

SURFACE OWNER(S) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

Received

DEC 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

06/19/2015

WW-6A
(8-13)

API NO. 47- 77
OPERATOR WELL NO. 49449649
Well Pad Name: Bolyard 1

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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

Pursuant to W. Va. Code R. § 35-8-15 2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

Well Location Restrictions

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

Received

DEC 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

06/19/2015

WW-6A
(8-13)

API NO. 47-77
OPERATOR WELL NO. 49449649
Well Pad Name: Boyana

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis, and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (c) or (f) of this section may seek relief in court. (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

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WV Dept. of Environmental Protection

06/19/2015

WV-6A
(8-13)

API NO. 47- // _____
OPERATOR WELL NO. 49449649
Well Pad Name: Boyard 1

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.wvdeq.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons,
- (2) The plan for soil erosion and sediment control is not adequate or effective,
- (3) Damage would occur to publicly owned lands or resources, or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A
(8-13)

API NO. 47. 77
OPERATOR WELL NO. 40449649
Well Pad Name: Bolyard 1

Notice is hereby given by:

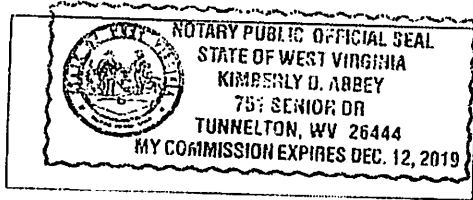
Well Operator: Enorplus Resources (USA) Corporation
Telephone: 720-279-5542
Email: tmiller@enorplus.com

Address: 950 17th Street Suite 2203
Denver, Colorado 80202
Facsimile: 303-441-2204

Oil and Gas Privacy Notice:

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

Tim Miller, Brent Arnold



Subscribed and sworn before me this 16th day of December 2014
Kimberly D. Abbey Notary Public
My Commission Expires Dec. 12, 2019

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WV Dept. of Environmental Protection

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Enerplus Resources (USA) Corporation – Bolyard 1-4H Well Permit – List of Surface and Mineral Owners

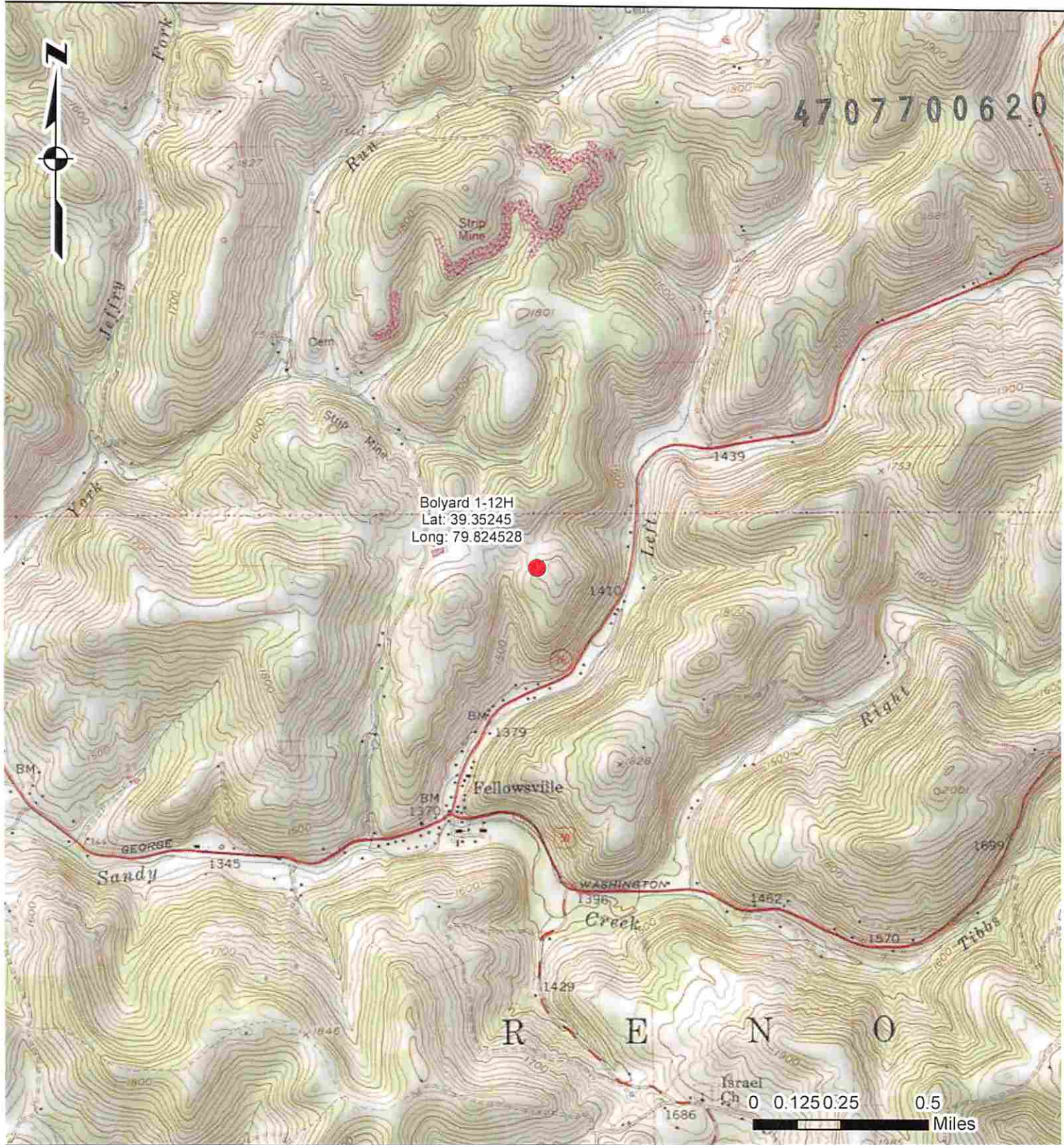
Ruby D. Bolyard 950 Herm Criss Road Tunnelton, WV 26444	(Primary Address)	
		Surface and Mineral Owner
Ruby D. Bolyard 419 Fairway Drive Melbourne Beach, FL 32951	(Secondary Address)	
		(Ruby D. Bolyard is the widow of Kenneth Bolyard and the current surface and mineral owner)
Natural Resources Partners Attention: George Angus 5260 Irwin Road Huntington, WV 25705		Coal and Mineral Owner
Gale Turner 680 Herm Criss Road Tunnelton, WV 26444		Water Purveyor (no surface or mineral ownership)
Kevin Hamilton 985 S. Preston Highway Tunnelton, WV 26444		Mineral Owner
Ruth Poling 1207 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
Terry Pysell 1418 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
Lulu (Lalah Larew/Carl Larew) Myers 5171 Sinclair Road Moatsville, WV 26405		Mineral Owner
Christopher Rankin 431 South Preston Highway Tunnelton, WV 26444		Mineral Owner
Phillip Bolyard 947 Herm Criss Road Tunnelton, WV 26444		Son of Ruby Bolyard (Not a surface or mineral owner)

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Map Features

- Bolyard 1-12H



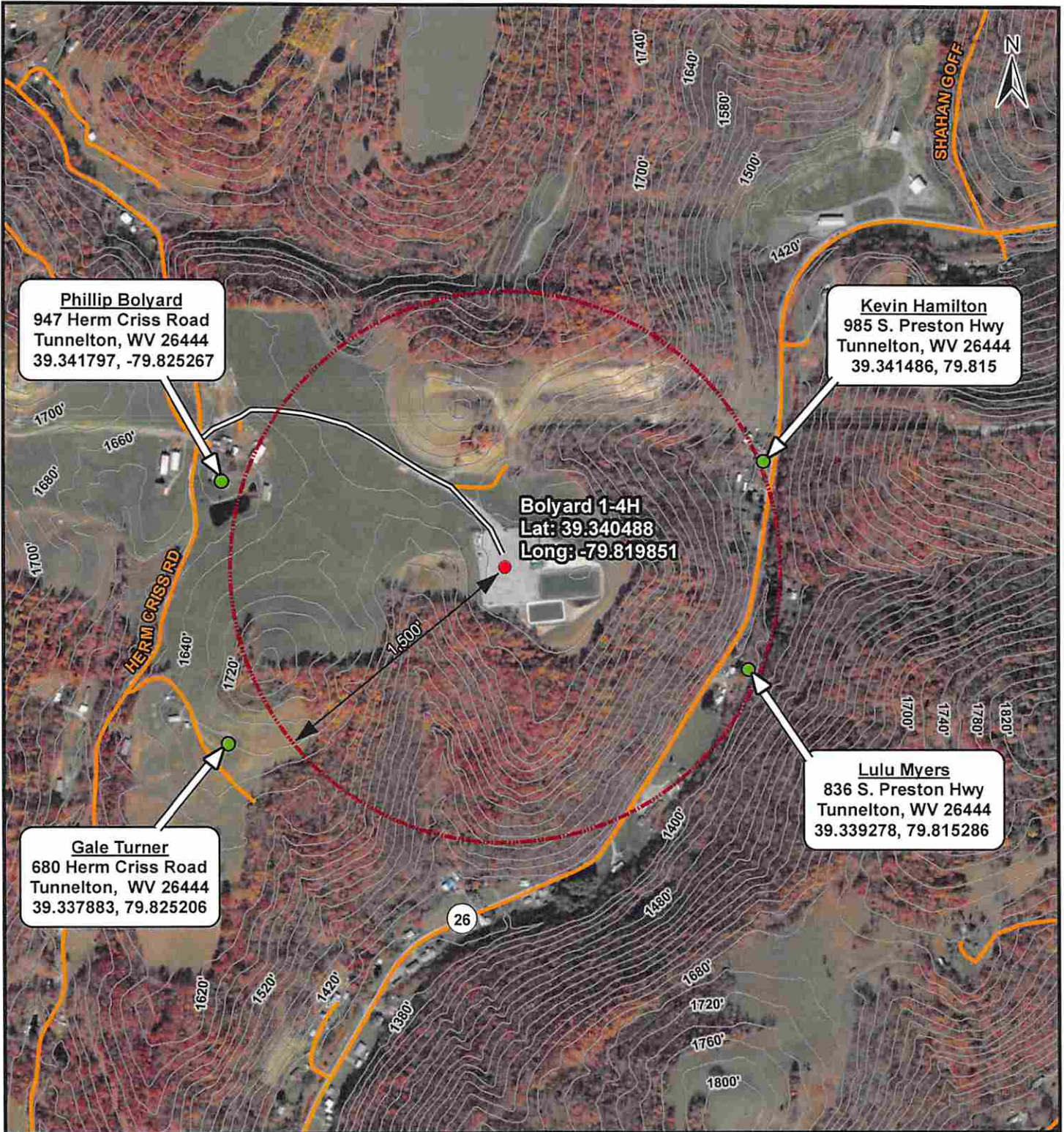
Author: jharris
 Date: 07/12/2012

Bolyard 1-12H

Fig. 1
 Topographic Site Location Map



DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the 06/19/2015 information contained in official government records such as the County Clerk and Records office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.



Phillip Bolyard
 947 Herm Criss Road
 Tunnelton, WV 26444
 39.341797, -79.825267

Kevin Hamilton
 985 S. Preston Hwy
 Tunnelton, WV 26444
 39.341486, 79.815

Bolyard 1-4H
 Lat: 39.340488
 Long: -79.819851

Lulu Myers
 836 S. Preston Hwy
 Tunnelton, WV 26444
 39.339278, 79.815286

Gale Turner
 680 Herm Criss Road
 Tunnelton, WV 26444
 39.337883, 79.825206

Bolyard 1-4H Pad	Local Road
Landowners with Water Wells	20' Contours
Pad Access Road	1500' Buffer

0 500 1,000 Feet

enerPLUS

**Bolyard 1-4H
 Water Well Map**

39.340488 -79.819851

HRC COMPLIANCE SOLUTIONS, INC. ENVIRONMENTAL CONSULTANTS	Author: R. Young
	Revision: 0
	Date: 11/17/2014

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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 11/05/2014 **Date of Planned Entry:** 11/21/14

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Ruby Bolyard (Kenneth Bolyard - deceased)

Address: 950 Herm Criss Road
Tunnelton, WV 26444

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: Natural Resources Partners, LLC

Address: 5263 Irwin Road
Huntington, WV 25705

MINERAL OWNER(s)

Name: See attached mineral owner list

Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.34039 79.82006</u>
County: <u>Preston</u>	Public Road Access: <u>Herm Criss Road</u>
District: <u>Reno</u>	Watershed: <u>Left Fork</u>
Quadrangle: <u>Fellowsville, WV</u>	Generally used farm name: <u>Bolyard</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 60 5th Street, SE Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Received

DEC 17 2014

Notice is hereby given by:

Well Operator: Enerplus Resources (USA) Corporation

Telephone: 304-685-7979

Email: trmiller@enerplus.com

Address: 950 17th Street
Denver, Colorado 80202

Facsimile: 304-441-2209

Office of Oil and Gas
WV Dept. of Environmental Protection

Oil and Gas Privacy Notice:

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

Enerplus Resources (USA) Corporation – Bolyard 1-4H Well Permit – List of Surface and Mineral Owners

Ruby D. Bolyard 950 Herm Criss Road Tunnelton, WV 26444	(Primary Address)	
		Surface and Mineral Owner
Ruby D. Bolyard 419 Fairway Drive Melbourne Beach, FL 32951	(Secondary Address)	
(Ruby D. Bolyard is the widow of Kenneth Bolyard and the current surface and mineral owner)		
Natural Resources Partners Attention: George Angus 5260 Irwin Road Huntington, WV 25705		Coal and Mineral Owner
Gale Turner 680 Herm Criss Road Tunnelton, WV 26444		Water Purveyor (no surface or mineral ownership)
Kevin Hamilton 985 S. Preston Highway Tunnelton, WV 26444		Mineral Owner
Ruth Poling 1207 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
Terry Pysell 1418 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
Lulu (Lalah Larew/Carl Larew) Myers 5171 Sinclair Road Moatsville, WV 26405		Mineral Owner
Christopher Rankin 431 South Preston Highway Tunnelton, WV 26444		Mineral Owner
Phillip Bolyard 947 Herm Criss Road Tunnelton, WV 26444		Son of Ruby Bolyard (Not a surface or mineral owner)

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 11/05/2014 Date Permit Application Filed: 11/21/2014

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Ruby Bolyard (Kenneth Bolyard - deceased)
Address: 950 Herm Criss Road
Tunnelton, WV 26444

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 79.82006 (E:1878036.69)
County: Preston Northing: 39.34039 (N:306304.27)
District: Reno Public Road Access: Herm Criss Road
Quadrangle: Fellowsville, WV Generally used farm name: Bolyard
Watershed: Left Fork

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Enerplus Resources (USA) Corporation
Address: 950 17th Street
Denver, Colorado 80202
Telephone: 720-279-5500
Email: tlucero@enerplus.com
Facsimile: 720-279-5550

Authorized Representative: Tim Miller
Address: PO Box 635
Kingwood, WV 26537
Telephone: 304-685-7979
Email: tmiller@enerplus.com
Facsimile: 304-441-2209

Oil and Gas Privacy Notice:

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

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Enerplus Resources (USA) Corporation – Bolyard 1-4H Well Permit – List of Surface and Mineral Owners

Ruby D. Bolyard 950 Herm Criss Road Tunnelton, WV 26444	(Primary Address)	
		Surface and Mineral Owner
Ruby D. Bolyard 419 Fairway Drive Melbourne Beach, FL 32951	(Secondary Address)	
		(Ruby D. Bolyard is the widow of Kenneth Bolyard and the current surface and mineral owner)
Natural Resources Partners Attention: George Angus 5260 Irwin Road Huntington, WV 25705		Coal and Mineral Owner
Gale Turner 680 Herm Criss Road Tunnelton, WV 26444		Water Purveyor (no surface or mineral ownership)
Kevin Hamilton 985 S. Preston Highway Tunnelton, WV 26444		Mineral Owner
Ruth Poling 1207 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
Terry Pysell 1418 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
Lulu (Lalah Larew/Carl Larew) Myers 5171 Sinclair Road Moatsville, WV 26405		Mineral Owner
Christopher Rankin 431 South Preston Highway Tunnelton, WV 26444		Mineral Owner
Phillip Bolyard 947 Herm Criss Road Tunnelton, WV 26444		Son of Ruby Bolyard (Not a surface or mineral owner)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 11/05/2014 **Date Permit Application Filed:** 11/21/2014

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Ruby Bolyard (Kenneth Bolyard - deceased)
Address: 950 Herm Criss Road
Tunnelton, WV 26444

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Preston
District: Reno
Quadrangle: Fellowsville, WV
Watershed: Left Fork

UTM NAD 83 Easting: 79.82006 (E:1878036.69)
Northing: 39.34039 (N:306304.27)
Public Road Access: Herm Criss Road
Generally used farm name: Bolyard

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Enerplus Resources (USA) Corporation
Telephone: 720-279-5500
Email: tlucero@enerplus.com

Address: 950 17th Street
Denver, Colorado 80202
Facsimile: 720-279-5550

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Enerplus Resources (USA) Corporation – Bolyard 1-4H Well Permit – List of Surface and Mineral Owners

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Ruby D. Bolyard 419 Fairway Drive Melbourne Beach, FL 32951	(Secondary Address)	
(Ruby D. Bolyard is the widow of Kenneth Bolyard and the current surface and mineral owner)		
Natural Resources Partners Attention: George Angus 5260 Irwin Road Huntington, WV 25705		Coal and Mineral Owner
Gale Turner 680 Herm Criss Road Tunnelton, WV 26444		Water Purveyor (no surface or mineral ownership)
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Ruth Poling 1207 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
Terry Pysell 1418 Herm Criss Road Tunnelton, WV 26444		Mineral Owner
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Christopher Rankin 431 South Preston Highway Tunnelton, WV 26444		Mineral Owner
Phillip Bolyard 947 Herm Criss Road Tunnelton, WV 26444		Son of Ruby Bolyard (Not a surface or mineral owner)

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WV Dept. of Environmental Protection

06/19/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Ruby D. Boyard, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>79 82006</u>
County: <u>Preston</u>	Northing: <u>39 34039</u>
District: <u>Reno</u>	Public Road Access: <u>Herm Criss Road</u>
Quadrangle: <u>Fellowsville, WV</u>	Generally used farm name: <u>Boyard</u>
Watershed: <u>Left Fork</u>	

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.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Ruby D. Boyard</u></p> <p>Print Name: <u>Ruby D. Boyard</u></p> <p>Date: <u>October 23, 2014</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
--	--

Oil and Gas Privacy Notice:

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

January 18, 2012

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Bolyard 1-4HG and Bolyard 1-12HG Well Sites

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit # 04 -11-0518 for access to the Bolyard 1-8 HG site to Enerplus Resources (USA) Corporation for access to the well site located on Preston County Route 50/3 SLS. Bolyard 1-4HG and Bolyard 1-12HG are to be located on the same site.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton
Regional Maintenance Engineer
RECEIVED
Office of Oil and Gas

Cc: Tim Miller
Enerplus Resources (USA) Corporation

APR 15 2015

WV Department of
Environmental Protection

**LIST OF CHEMICAL NAMES
AND CAS NUMBERS FOR
FRAC ADDITIVES**

4707700620

**ENERPLUS RESOURCES (USA)
CORPORATION
Bolyard 1-4H**

The following additives may be used for the Bolyard 1-4H Gas Well:

Descriptive Additive Type	CAS Number(s):
Fresh Water	N/A
Sand	68130-15-4
FRP 121 - Water Soluble Polymer	Mixture
ECS6116A - Bromine Based Biocide	3252-43-5, 10222-01-2, 25322-68-3
Scalehib 100 - Water Soluble Polymer	Mixture
Flomax 50 - Non-toxic surfactant	67-63-0
FE OXYCLEAR - O2 Scavenger	Mixture
CMHPG - Modified Guar Gum	68130-15-4
LEB 10X - Polymer breaker	Mixture
HCL - Muriatic Acid	7647-01-0
UniHib A - Corrosion Inhibitor	67-56-1, 68802-97-1, 64741-68-0, 64742-98-6 008-20-6, 64742-81-0, 67-63-0, 95-63-0, 0-00-0, 91-20-3

Note: Additional additives may be required as operations permit.

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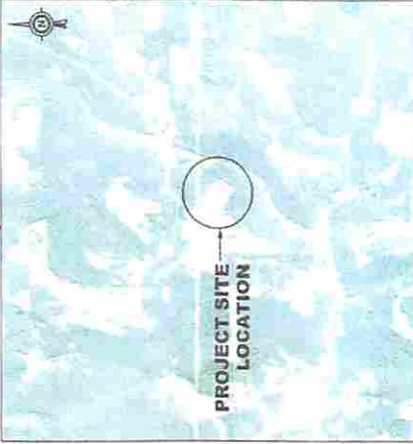
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EROSION AND SEDIMENT CONTROL PLANS BOLYARD 1-4H PRESTON COUNTY, WEST VIRGINIA

FOR ENERPLUS RESOURCES (USA) CORPORATION Electronic Version of These Plans May Be Viewed at: Q:\OIL GAS\SAY FILES\REVIEWS

API#7700595
API#7700620



LOCATION MAP
1:50,000 SCALE

PROJECT NO. 1136001
JUNE 2012

DIEFFENBAUCH & HRITZ

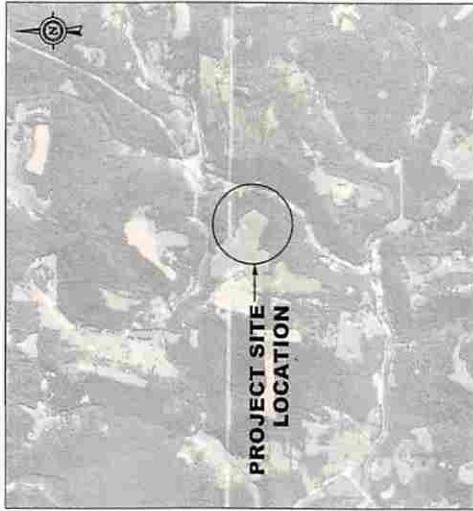
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3/12/2015



DESCRIPTION	DATE
1. TITLE SHEET	
2. EROSION CONTROL PLAN	
3. SEDIMENT CONTROL PLAN	
4. NOISE PLAN	
5. PROPOSED MIT PLAN	
6. RESTORATION SITE PLAN	
7. TYPICAL CROSS SECTIONS	
8. TYPICAL EROSION CONTROL PLAN	
9. TYPICAL SEDIMENT CONTROL PLAN	
10. TYPICAL SOIL STORAGE	
11. TYPICAL	

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CONSTRUCTION PLANS BOLYARD 1-4H PRESTON COUNTY, WEST VIRGINIA FOR ENERPLUS RESOURCES (USA) CORPORATION



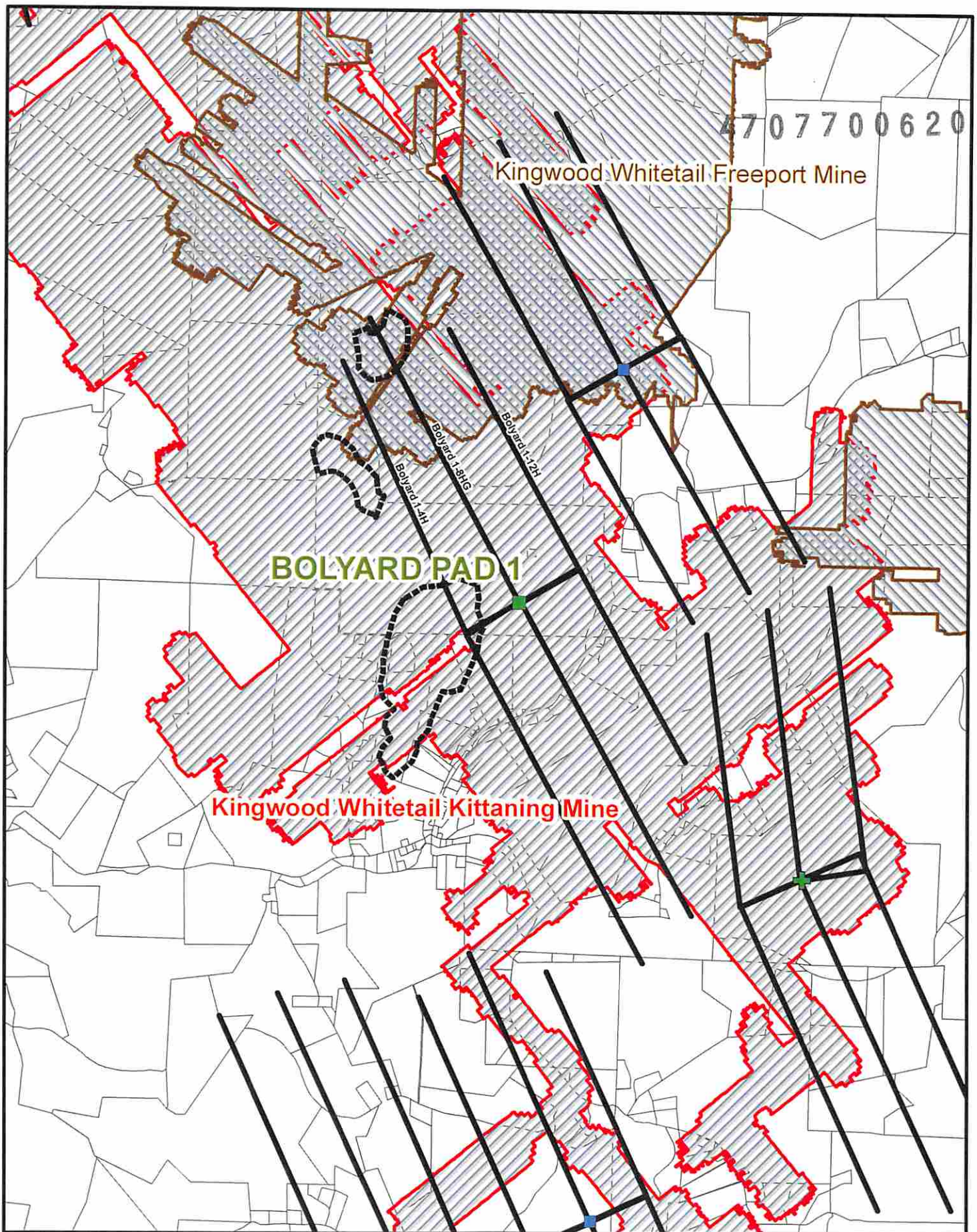
LOCATION MAP
1:500' G 2002
SCALE

PROJECT NO. 1136001
JUNE 2012
DIEFFENBAUCH & HRITZ

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*MSJK
11/13/2014*

DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXHIBIT PLAN
4	SOILS PLAN
5	PROPOSED SITE PLAN
6	RESTORATION SITE PLAN
7	TYPICAL CROSS SECTIONS
8-9	POND CROSS SECTIONS
10-11	POND STAGE STORAGE






ENERPLUS BOLYARD PAD #1: Coal mines

Bolyard Pad 1 is located above Kingwood Mining's Whitetail Kittanning Mine. Middle Kittanning seam is at ~610 ft depth at the site. Bolyard 1-8HG wellbore encountered the seam at 605' on from mudlog. No void was observed at this wellbore.

Legend JPK 6/18/12

Bolyard area mines

Mine_Type, Coal_Seam

-  Surface
-  Underground, Middle Kittanning
-  Underground, Upper Freeport

06/19/2015

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**CEMENT ADDITIVES
ENERPLUS RESOURCES (USA) CORPORATION
BOLYARD 1-4H**

The following additives may be used for drilling at the Bolyard 1-4H Well:

Base Oil	Mil-Graphite
Calcium Chloride Flake	Mil-Lime
Carbo-Gel	Mil Pac LV
Carbo-TEC	Mil Pac
Carbo-Trol HT	Mil Sorb
Caustic Soda	Mil Starch
Citric Acid	Milmica Fine
Conqor	New Drill
Defoam	Omni-Cote
DFE 459	Potassium Chloride
LC Glide	Rheo-Sweep
Magma Fiber	Salt
Mil-Bar Big Bag	Shrink Wrap
Mil-Bar	Soda Ash
Mil Carb	Walnut - Medium
	Xan-Plex

Note: Additional additives may be requested as operation permits. The SDS for the additives will be available onsite.

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**ADDITIONAL ADDITIVES
ENERPLUS RESOURCES (USA) CORPORATION
BOLYARD 1-4H**

The following additives may be used for drilling at the Bolyard 1-4H Well:

Base Oil	Mil-Graphite
Calcium Chloride Flake	Mil-Lime
Carbo-Gel	Mil Pac LV
Carbo-TEC	Mil Pac
Carbo-Trol HT	Mil Sorb
Caustic Soda	Mil Starch
Citric Acid	Milmica Fine
Conqor	New Drill
Defoam	Omni-Cote
DFE 459	Potassium Chloride
LC Glide	Rheo-Sweep
Magma Fiber	Salt
Mil-Bar Big Bag	Shrink Wrap
Mil-Bar	Soda Ash
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Note: Additional additives may be requested as operation permits. The SDS for the additives will be available onsite.

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