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**west virginia** department of environmental protection

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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. Huffiman, Cabinet Secretary  
www.dep.wv.gov

January 10, 2014

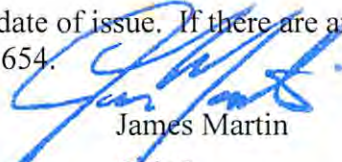
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-7700577, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: WINTERS 1-8 HG  
Farm Name: WINTERS, BONNIE JEAN  
**API Well Number: 47-7700577**  
**Permit Type: Plugging**  
Date Issued: 01/10/2014

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

## Winters #1-8HG

### Proposed Plugging Procedure

Enerplus  
950 17<sup>th</sup> Street, Suite 2200  
Denver, Colorado 80202-2805  
(720-279-6743)

Directions to Winters #1-8HG Wellsite: From Aurora, WV: Proceed East on Rt. 50 for approximately 3 miles. Turn right (South) on Rt. 24. Go 1.9 miles. Turn right (East) County Rt. 116 (Grange Hall). Go .5 miles. Location access road is on the left.

Prepared by:

Mark V. Schumacher, P.E.  
Laurel Oil & Gas Corp.  
P.O. Box 1122  
Bridgeport, WV 26330  
October 23, 2013

SDW  
12/2/2013  
See Notes  
#40  
1

OK'D  
Oil and Gas  
DEC 11 2013  
WV Department of  
Environmental Protection  
01/10/2014

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WW-4B  
Rev. 2/01

1) Date 11-5, 2013  
2) Operator's  
Well No. Winlers 1-BHG  
3) API Well No. 47-077 - 03677H

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep X / Shallow \_\_\_

5) Location: Elevation 2,796' Watershed Maple Run  
District Union County 077 Quadrangle Aurora, WV 7.5'

6) Well Operator Enerplus Resources (USA) Corporation 7) Designated Agent \_\_\_  
Address 950 17th Street, Suite 2200 Address \_\_\_  
Denver, Co 80202

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward (304-389-7583) Name Basic Energy  
Address P.O. Box 2327 Address 225 Jefferson Rd.  
Buckhannon WV 26201 Waynesburg, pa

10) Work Order: The work order for the manner of plugging this well is as follows:  
Please see attached P&A proposal.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector S. P. Dabowitz Date 12/3/2013

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**Parameters:**

- 20", 94#, J55 casing set @ 65' (cement to surface)
- 13 3/8", 54.5#, J55 casing set @ 930' (cement to surface)
- 9 5/8", 36#, J55 casing set @ 2522' (cement to surface)
- 5 1/2", 20#, P110 casing set @ 10112' (calculated TOC @ 2000')
- KOP @ 5313'MD
- TD 8 1/2" hole @ 10258'MD
- Top of Marcellus Shale @ 5685'MD
- Top Marcellus perf.: 6018'MD
- SITP – 1800 psig
- SICP – 1910 psig
- 2 3/8", 5.8#, L80, 8R, EUE tubing set @ 9819'
- Profile nipple (X nipple?) set @ 5256'MD – 163 jts from surface
- Profile nipple (XN nipple?) set @ 9816'MD – 306 jts from surface
- Tubing collapse – 15280 psig, burst – 14970 psig, joint strength – 135400#
- Tubing head connection: 7 1/16" 10000#

1. MIRU double derrick service rig (104' minimum derrick height). Move in catwalk, 2ea. – sets pipe racks, mud pump, open top circulating tank, 500 bbl fresh water storage tank, and 500 bbl flowback/"waste water" storage tank.
2. R/U all equipment.
3. MIRU slickline truck. RIH and set blanking plug in "X" profile nipple @ 5256'. Blow down tubing to flowback tank. Assure that blanking plug is properly set. RDMO slickline truck.
4. N/D production tree. N/U 7 1/16" 10M x 7 1/16" 5M adapter spool and 7 1/16" 5M double ram BOP (blinds on bottom, 2 3/8" pipe on top).
5. MIRU 7 1/16" 5M "rig assist" snubbing unit. Pressure test BOP's to 4500 psig, and annular to 3000 psig.
6. R/U flowback iron from wellhead to flowback tank.
7. R/U mud pump to annulus. Pump 100 bbls fresh water down annulus followed by 50 bbls 10ppg brine.
8. Unscrew tubing hanger pins and pull tubing hanger. TOH 2 3/8" tubing, standing back 6000' of tubing, and laying down the remainder. The slickline truck will be required to pull the "X" profile blanking plug once

Received  
NOV - 8 2013  
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State of Environmental Protection

- this plug reaches surface. An "XN" blanking plug will then be set in the bottom of the tubing string to facilitate "stripping/snubbing" the remainder of the string out of the hole.
9. RDMO "rig assist" snubbing unit.
  10. R/U wireline company with lubricator. RIH and set 5 1/2" CIBP @ 5700' (~37 degrees deviation at this point). POOH with setting tool. RDMO wireline company.
  11. Blow down casing to flowback tank. Assure CIBP is holding properly.
  12. TIH 2 3/8" tubing "open ended" to 5700'.
  13. R/U cementing company. Mix and spot cement plug #1 (Class A cement) F/5700'-T/5300'. *400' cement plug*
  14. Pull and L/D tubing to 5250'.
  15. Mix and spot 6% gel F/5250'-T/3500'.
  16. Pull and L/D tubing to 3500'
  17. Mix and spot cement plug #2 (Class A cement) F/3500'-T/3200'. *300' cement plug*
  18. Pull & L/D tubing to 3200'.
  19. Mix and spot 6% gel F/3200'-T/2000'.
  20. TOH 2 3/8" tubing, standing back 2000', and laying down the remainder.
  21. N/D 7 1/16" 5M BOP's and adapter spool. Changeout pipe rams to 5 1/2" casing rams.
  22. Blow down 9 5/8" x 5 1/2" annulus to flowback tank. N/D tubing head. Weld on 5 1/2", 20# "pull nipple" (10' long) to 5 1/2" casing string.
  23. R/U 5 1/2" elevators and slips. Pull 5 1/2" casing slips from casing head. N/U 11" 5M x 7 1/16" 5M adapte spool. N/U 7 1/16" 5M BOP's.
  24. R/U wireline truck. RIH and "freepoint" 5 1/2" casing. Perform 'stretch test" on 5 1/2" casing to verify freepoint readings. RIH and "jet cut" 5 1/2" casing @ 100% freepoint (should be around 2000').
  25. R/U "high torque" casing power tongs with rotary backups.
  26. Pull 1<sup>st</sup> joint of 5 1/2" and assure that pipe is not dragging. Release wireline truck.
  27. Pull and L/D all 5 1/2" casing.
  28. Changeout pipe rams to 2 3/8" tubing. TIH tubing to 2000' (5 1/2" casing stub).
  29. Mix and spot cement plug #3 (Class A cement) F/2000'-T/1800'. *200' cement plug.*
  30. Pull and L/D tubing to 1750'.
  31. Mix and spot 6% gel F/1800'-T/800'.
  32. Pull and L/D tubing to 800'.
  33. Mix and spot cement plug #4 (Class A cement) F/800'-T/600'.
  34. Pull and L/D tubing to 550'.
  35. Mix and spot 6 % gel F/550'-T/200'
  36. Pull and L/D tubing to 200'.
  37. Mix and spot cement plug #5 (Class A cement) F/200'-T/surface.
  38. Pull and L/D remainder of tubing. Fill casing to surface with cement.
  39. N/D BOP's and adapter spool. Cutoff and remove 9 5/8" casing head.
  40. Weld on monument (9 5/8" plate with a 2" vent pipe (5' high) containing a nameplate with permit and well number welded on same.

*NO VENT PIPE*

*OK gmm*

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- 41. RDMO all equipment. Haul out tubing and casing to destination as designated by Enerplus.
- 42. Reclaim location and access road.
- 43. Job complete.

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- this plug reaches surface. An "XN" blanking plug will then be set in the bottom of the tubing string to facilitate "stripping/snubbing" the remainder of the string out of the hole.
9. RDMO "rig assist" snubbing unit.
  10. R/U wireline company with lubricator. RIH and set 5 1/2" CIBP @ 5700' (~37 degrees deviation at this point). POOH with setting tool. RDMO wireline company.
  11. Blow down casing to flowback tank. Assure CIBP is holding properly.
  12. TIH 2 3/8" tubing "open ended" to 5700'.
  13. R/U cementing company. Mix and spot cement plug #1 (Class A cement) F/5700'-T/5300'.
  14. Pull and L/D tubing to 5250'.
  15. Mix and spot 6% gel F/5250'-T/3500'.
  16. Pull and L/D tubing to 3500'.
  17. Mix and spot cement plug #2 (Class A cement) F/3500'-T/3200'.
  18. Pull & L/D tubing to 3200'.
  19. Mix and spot 6% gel F/3200'-T/2000'.
  20. TOH 2 3/8" tubing, standing back 2000', and laying down the remainder.
  21. N/D 7 1/16" 5M BOP's and adapter spool. Changeout pipe rams to 5 1/2" casing rams.
  22. Blow down 9 5/8" x 5 1/2" annulus to flowback tank. N/D tubing head. Weld on 5 1/2", 20# "pull nipple" (10' long) to 5 1/2" casing string.
  23. R/U 5 1/2" elevators and slips. Pull 5 1/2" casing slips from casing head. N/U 11" 5M x 7 1/16" 5M adapte spool. N/U 7 1/16" 5M BOP's.
  24. R/U wireline truck. RIH and "freepoint" 5 1/2" casing. Perform 'stretch test' on 5 1/2" casing to verify freepoint readings. RIH and "jet cut" 5 1/2" casing @ 100% freepoint (should be around 2000').
  25. R/U "high torque" casing power tongs with rotary backups.
  26. Pull 1<sup>st</sup> joint of 5 1/2" and assure that pipe is not dragging. Release wireline truck.
  27. Pull and L/D all 5 1/2" casing.
  28. Changeout pipe rams to 2 3/8" tubing. TIH tubing to 2000' (5 1/2" casing stub).
  29. Mix and spot cement plug #3 (Class A cement) F/2000'-T/1800'.
  30. Pull and L/D tubing to 1750'.
  31. Mix and spot 6% gel F/1800'-T/800'.
  32. Pull and L/D tubing to 800'.
  33. Mix and spot cement plug #4 (Class A cement) F/800'-T/600'.
  34. Pull and L/D tubing to 550'.
  35. Mix and spot 6 % gel F/550'-T/200'.
  36. Pull and L/D tubing to 200'.
  37. Mix and spot cement plug #5 (Class A cement) F/200'-T/surface.
  38. Pull and L/D remainder of tubing. Fill casing to surface with cement.
  39. N/D BOP's and adapter spool. Cutoff and remove 9 5/8" casing head.
  40. Weld on monument (9 5/8" plate with a ~~2" vent pipe~~ (5' high) containing a nameplate with permit and well number welded on same.

#40 - Vent will NOT  
BE USED. 3  
12-5-13  
SM.

No Vent Pipe needed.  
No Mineable coal SDW  
12/2/2013

01/10/2014



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

1) Well Operator Enerplus Resources (USA) Corp. 77 7 225  

49449649	Preston	Union	Aurora
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Winters 1-8 HG 3) Elevation: 2,796'

4) Well Type: (a) Oil \_\_\_\_\_ or Gas X  
(b) If Gas: Production X / Underground Storage \_\_\_\_\_  
Deep X / Shallow \_\_\_\_\_

5) Proposed Target Formation(s): Marcellus and all overlying horizons Proposed Target Depth: 5,952'

6) Proposed Total Depth: 6,456' (10,258') Feet Formation at Proposed Total Depth: Oriskany sandstone

7) Approximate fresh water strata depths: 200', 650', 800'

8) Approximate salt water depths: 2,000'

9) Approximate coal seam depths: There are no coal seams that underlie the proposed site.

10) Approximate void depths, (coal, Karst, other): There are no known voids that underlie the proposed site.

11) Does land contain coal seams tributary to active mine? The land contains no coal seam tributary to an active mine.

12) Describe proposed well work in detail Plug back from TD to 5485 with cement  
Construct the well site, including the pads and spits. Mobilize the drilling rig.

Drill a Marcellus shale gas well into the Oriskany sandstone at 6,456'. Plug the vertical at a depth of 5,485' and commence horizontal drilling into the Marcellus shale unit, with the casing program listed below. Evaluate the well. Run and cement production casing. Demobilize the drilling rig. Mobilize the completion equipment.

Complete well: perforate, fracture stimulate, clean-out, run tubing, unload and test the gas well. Reclaim the site.

\* - Kick-off point - 5,485'; Upper Marcellus formation

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	20"	K-55	-	40'	40'	<del>Sand to Surface</del>
Fresh Water	13 3/8"	J-55	54.5 lb.	900'	900'	Circulate to Surface
Coal	9 5/8"	J-55	54.5 lb.	2,500'	2,500'	Circulate to Surface
Intermediate	9 5/8"	J-55	54.5 lb.	2,500'	2,500'	Circulate to Surface
Production	5 1/2"	P-110	20.0 lb.	10,258'	10,258'	Top @ 5,485'
Tubing	2 3/8"	J-55	4.7 lb.			
Liners	N/A					

*EDW  
ETS  
4/28/11  
B.O.H.  
4-28-11*

Packers: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths Set \_\_\_\_\_

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WR-35  
Rev (9-11)

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: 08-27-2012  
API #: 47-7700577

Farm name: Winters Operator Well No.: 1-8HG

LOCATION: Elevation: 2796 Quadrangle: Aurora

District: Union County: Preston  
Latitude: 0 Feet South of 39 Deg. 17 Min. 51.7560 Sec.  
Longitude 0 Feet West of 79 Deg. 31 Min. 43.1760 Sec.

Company: Enerplus Resources (USA)

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
333 Technology Drive Suite 255 Canonsburg, PA 15317	20"	40'	40'	N/A
Agent: Terry and Diane Stamper	13 3/8"	900'	900'	845
Inspector: <b>Sam Ward</b>	9 5/8"	2500'	2500'	992
Date Permit Issued: <u>05-20-2011</u>	5 1/2"	10258'	10258'	2860
Date Well Work Commenced: <u>06-17-2011</u>				
Date Well Work Completed: <u>08-25-2012</u>	230' 4.79 L-80 EUE		5851'	N/A
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>6036</u>				
Total Measured Depth (ft): <u>10125</u>				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>No</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) +/- 5900'

Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 440 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 926 Hours

Static rock Pressure 190/500 psig (surface pressure) after 926 Hours

Second producing formation N/A Pay zone depth (ft) N/A

Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d

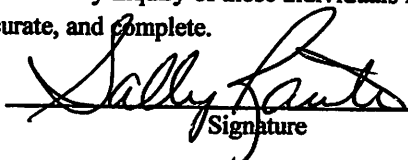
Final open flow N/A MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure N/A psig (surface pressure) after N/A Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

  
Signature

08-27-2012

Date

01/10/2014

Were core samples taken? Yes  No Were cuttings caught during drilling? Yes  No Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, Neutron, Density, Sonic, FMI, ECS

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

**Plug and perf**3 3/8" gun w/6 spf 60 deg 23 gram .42" holeEach stage contained approx. 504,000 gal water & 56,000 lbs sand80 bpmSee attached for perf clusters.Plug Back Details Including Plug Type and Depth(s):Formations Encountered:Top Depth/Bottom DepthSurface:

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
Foreknobs/Chemung	Surface	/	3558
Brailier Shale	3558	/	5383
Burkette/Geneseo	5383	/	5398
Tully Limestone	5398	/	5417
Mahatango/Hamilton	5417	/	5695
Upper Marcellus Shale	5695	/	5769
Purcell Limestone	5769	/	5809
Lower Marcellus	5809	/	5856
Onondaga Limestone	5856	/	5877
Huntersville Chert	5877	/	

## Winters 1-8HG

Stage	Formation	Depth		Stage Length w plug	Cluster 4		Cluster 3		Cluster 2		Cluster 1		Frac Plug Depth
		Top	Bottom		Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	
1	Marcellus	9618	9968	390	9618	9620	9734	9736	9850	9852	9966	9968	
2	Marcellus	9218	9568	400	9218	9220	9334	9336	9450	9452	9566	9568	9617
3	Marcellus	8818	9168	400	8818	8820	8934	8934	9050	9052	9166	9168	9217
4	Marcellus	8418	8768	400	8418	8420	8534	8536	8650	8652	8766	8768	8817
5	Marcellus	8018	8368	400	8018	8020	8134	8136	8250	8252	8366	8368	8417
6	Marcellus	7618	7968	400	7618	7620	7734	7736	7850	7852	7966	7968	8017
7	Marcellus	7218	7568	400	7218	7220	7334	7336	7450	7452	7566	7568	7617
8	Marcellus	6818	7168	400	6818	6820	6934	6936	7050	7052	7166	7168	7217
9	Marcellus	6418	6768	400	6418	6420	6534	6536	6650	6652	6766	6768	6817
10	Marcellus	6018	6368	400	6018	6020	6134	6136	6250	6252	6366	6368	6417

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WW-4A  
Revised 6-07

1) Date: 11-5-13  
2) Operator's Well Number Winters 1-8HG

3) API Well No.: 47 - 077 - 00577H

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Bonnie Jean Winters</u>	Name <u>No Coal operators present</u>
Address <u>2264 Grange Hall Road</u>	Address _____
<u>Elgon, WV 86716</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Bonnie Jean Winters</u>
_____	Address <u>2264 Grange Hall Road</u>
(c) Name _____	<u>Elgon, WV 86716</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 157</u>	Name <u>There are no coal leases on the property</u>
<u>Volga, WV 26238</u>	Address _____
Telephone <u>304-472-1732</u>	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

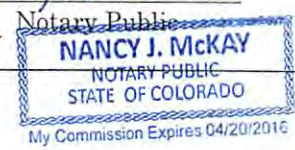
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Enerplus Resources (USA) Corporation  
 By: Susana Mckenzie  
 Its: Operations Technician  
 Address 950 17th street, Suite 2200  
Denver, Co 80202  
 Telephone 720-279-5500



Subscribed and sworn before me this 5th day of November, 2013

Nancy J. McKay  
My Commission Expires 4/20/2016



**Oil and Gas Privacy Notice**

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

01/10/2014

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 Enerplus Resources (USA) Corporation OP Code 49449649

Watershed Maple Run Quadrangle Aurora, WV 7.5'

Elevation 2,796' County 077 District union

Description of anticipated Pit Waste: N/A

Will a synthetic liner be used in the pit? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 2D0859721 / UIC 2D05105 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

*updated  
12-6-13  
gml*

*SDW  
12/2/2013  
Need disposal  
method and/or  
UIC# if  
disposed of  
in UIC*

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

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.

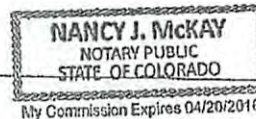
Company Official Signature [Signature]  
Company Official (Typed Name) Susana Mckenzie  
Company Official Title Operations Technician

Subscribed and sworn before me this 5th day of November, 2013

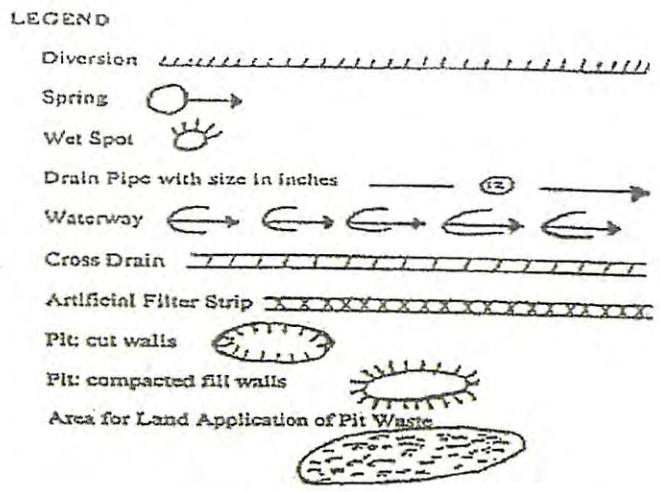
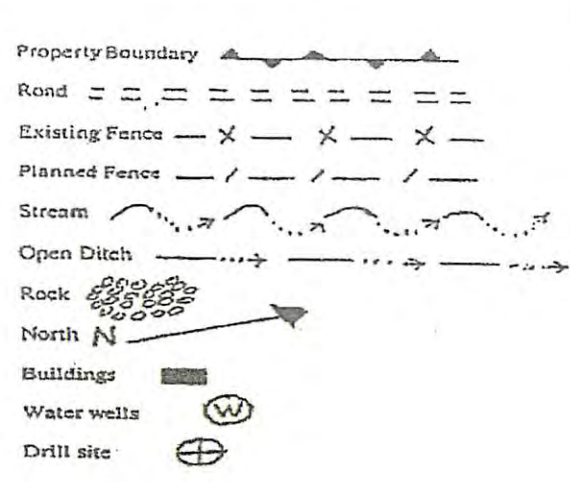
Nancy J. McKay

Notary Public

My commission expires 4/20/2016



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Proposed Revegetation Treatment: Acres Disturbed 10.0 +/- Prevegetation pH -

Lime 6 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 to 3 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Annual Rye	40	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.

Photocopied section of involved 7.5' topographic sheet.  
See the attached Aurora, WV 7.5' USGS Topographic Map

Plan Approved by: S. P. O. Winters

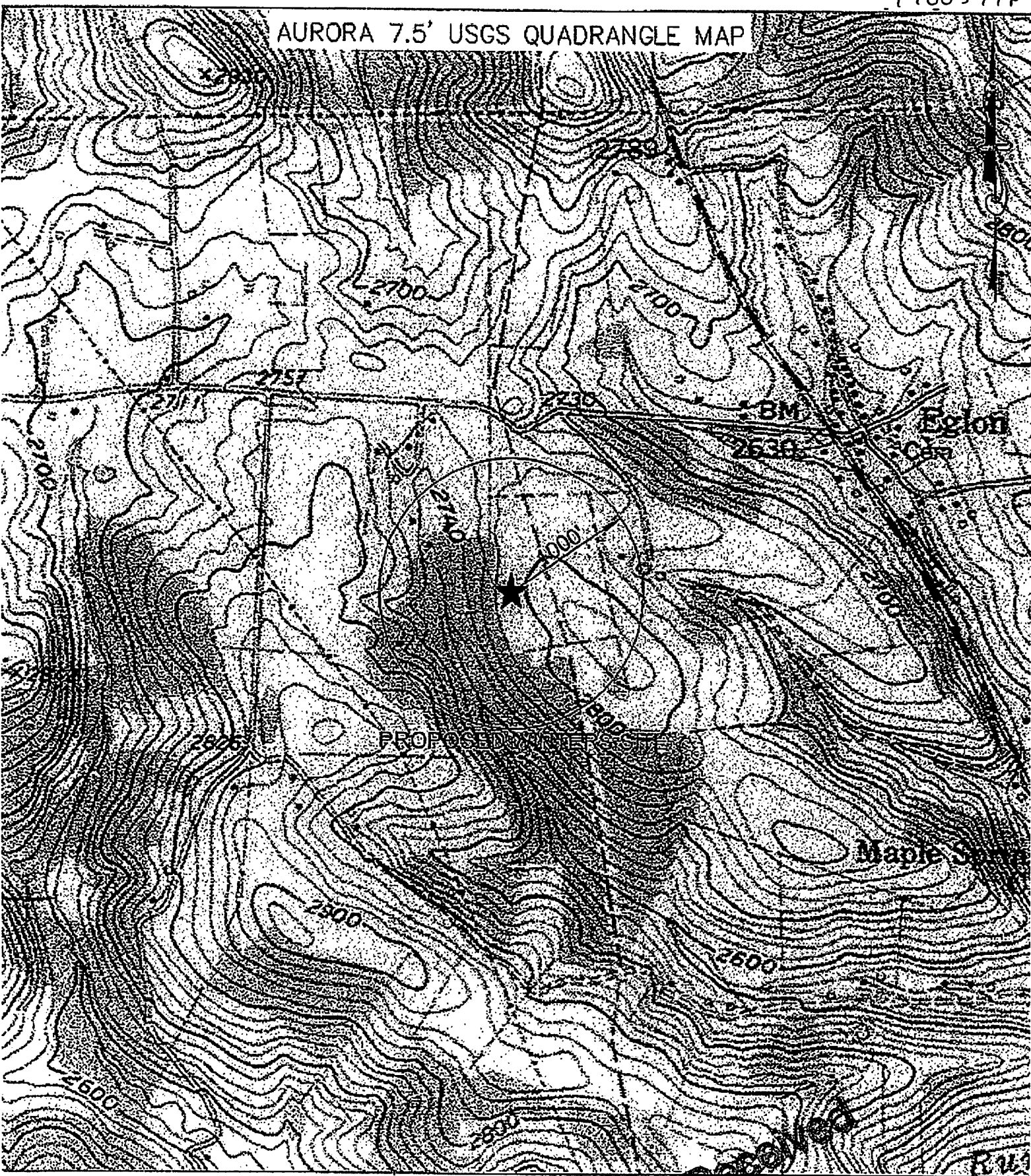
Comments: Ensure that soil PH + Nutrients are proper to support growth of vegetation

Title: Oil & Gas Inspector Date: 12/2/2013

Field Reviewed? ( ) Yes ( X ) No

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AURORA 7.5' USGS QUADRANGLE MAP



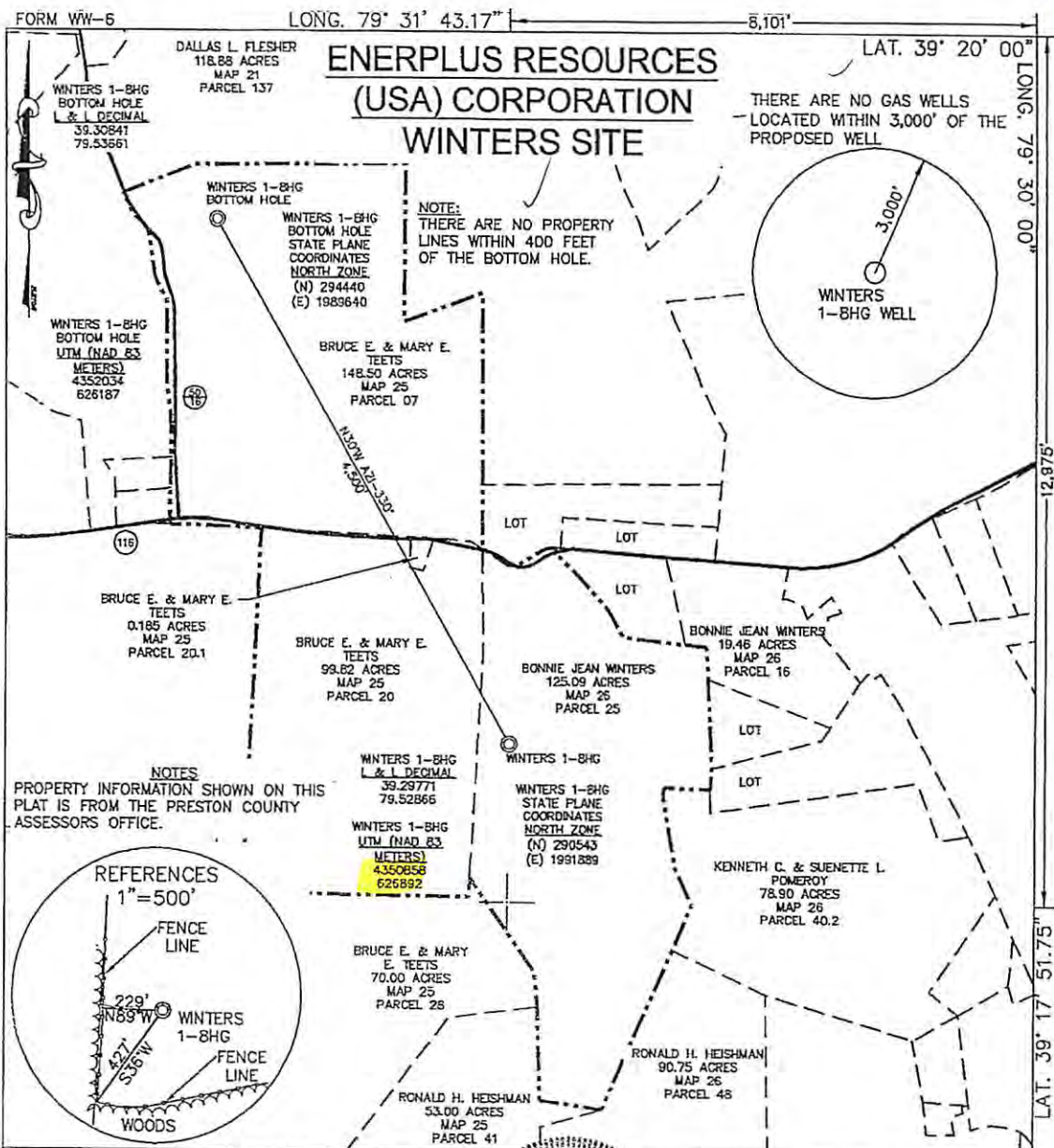
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01/10/2014





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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 DIVISION OF ENVIRONMENTAL PROTECTION.

PE 10397 *James W. Fetty Jr.*  
 Hatch Mott MacDonald  
 2001 CRAWFORD SQUARE  
 WASHINGTON, WV 25305  
 (304) 212-4390



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAP.  
 DATE MARCH 24, 20 11  
 OPERATORS WELL NO. WINTERS 1-BHG  
 API WELL NO. 47 STATE 077 COUNTY 00577H PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 289889  
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1"=1000'

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

WELL TYPE : OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION : ELEVATION 2,796' WATERSHED CHEAT  
 DISTRICT UNION COUNTY PRESTON QUADRANGLE AURORA

SURFACE OWNER BONNIE JEAN WINTERS ACREAGE 125.09 ±  
 ROYALTY OWNER BONNIE JEAN WINTERS, BRUCE E. & MARY E. TEETS LEASE ACREAGE 373.60 ±

PROPOSED WORK : DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
 ESTIMATED DEPTH 3,640' (10,258.1')

WELL OPERATOR ENERPLUS RESOURCES (USA) CORPORATION DESIGNATED AGENT TERRY STAMPER  
 ADDRESS 1700 LINCOLN STREET, SUITE 1300, DENVER, CO 80203 ADDRESS 5400 D BIG TYLER ROAD, CHARLESTON, WV 25313

Received

Office of Oil and Gas  
 Division of Environmental Protection

01/10/2014