



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

April 08, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500586, issued to TRIAD HUNTER, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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: 2 (JOY, S.A.#2)
Farm Name: CHARITY GAS CO.
API Well Number: 47-9500586
Permit Type: Plugging
Date Issued: 04/08/2014

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

1. 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.

1) Date March 11, 2014
2) Operator's
Well No. S.A. Joy #2
3) API Well No. 47-095 - 0586

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 X / Gas X / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow X

5) Location: Elevation 875' Watershed Elk Fork
District Ellsworth 02 County Tyler 45 Quadrangle Porters Falls 554

6) Well Operator Triad Hunter LLC 7) Designated Agent Kimberly Arnold
Address 125 Putnam Street Address P.O. Box 154
Marietta, Ohio 45750 Waverly, WV

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Joe Taylor Name
Address 1478 497 Claylick Road Address
Ripley, WV 25271

10) Work Order: The work order for the manner of plugging this well is as follows:

(SEE ATTACHMENT)

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

Work order approved by inspector 

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Office of Oil and Gas
MAR 17 2014
Date 3-12-14
WV Department of
Environmental Protection

PLUGGING PROCEEDURE

ELK FORK FIELD

Ellsworth District, Tyler County

1. MIRU service rig, dig flow back pit, and remove pumping unit if necessary.
2. Pull tubing and rods OOH and clean hole to total depth.
3. Run 2 3/8" 8rnd tubing to the base of the shot hole or pay zone.
4. **Mix/Pump 75 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl**, through the tubing into the shot hole (**Plug # 1 – 88.5 cu.ft.**).
5. Pull tubing up to 1,000 feet and shut down for the day.
6. Lower tubing and tag the top of the cement plug. Mix additional cement to cover the shot hole if necessary.
7. Pull casing (5 3/16", 6 ¼", 6 5/8")OOH, or cut-off / shoot apart casing around 500 feet above the Keener Formation or pay zone and pull it OOH.
8. RIH with 2 3/8" 8rnd tubing to the top of the cut-off casing or 500 feet above the Keener Fm./pay-zone.
9. **Mix/Pump 60 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl** through the tubing into the annulus (**Plug # 2 – 68 cu.ft., 200' lin. ft.**).
10. Pull tubing up-hole to set surface hole plug as follows: (Assume Hole Size = 10")

(Elevation)	(Plug Depth)	(Cement Required)	(Cubic Feet)
Below 800 feet	100'	50 sacks	54.5
800' to 900'	150'	70 sacks	82.0
900' to 1,000'	200'	95 sacks	109.0
Over 1,000 feet	250'	116 sacks	136.5
11. **Mix/Pump (Plug # 3) the surface hole plug with Class A Cement, ¼ lb. flocele/sk., 1% CaCl**, through the tubing until cement is circulated to surface. Pull tubing OOH.
12. **Top load hole with Class A Cement** and install monument casing so that it is 3' above ground level.
13. Weld identification plate on monument pipe and fill monument pipe with Class A Cement.
14. RDMO service rig and surface equipment.
15. Reclaim well site and lease road.

Note! Mix / Pump gel spacers between all cement plugs.



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ELK FORK FIELDPermit Number: 47-095-0586 Well Name: S.A. Joy #2District: Ellsworth County: TylerDate Drilled: May/1897 Total Depth: 1787' Elevation: 875'Producing Zone: Keener Shot Hole Depth: NO recordCasing Depths: 10" 325'-P 8 1/4" 1055'-P Tubing Depth: 2" 1777'6 5/8" _____ 6 1/4" 1690'5 3/16" _____ 4 7/8" 1720'Remarks: 4 7/8" set ON H.W. PackerPay Zone 1758'-1773'Gas@ 1758', Oil@ 1773'(-883)Shot 3 times

47-095-0586

Elev. 875

LEASE NO. 752 ACRES 9 FARM NAME S. A. Joy H.No. 1969 WELL NO. 2

N. 7 S. E. W. 13	Location Made	Purchased From	H.C.&R.
Civil District Kilworth	Rig Completed	Date Purchased	3-1-43
County Tyler	Dr'g Commenced	Sold To	
State W. Va.	Dr'g Completed	Date Sold	
GAS Oil. Rights Owned By	Dr'g Contractor	Date Abandoned	

FORMATION					CASING RECORD				
Kind	Top	Bottom	Steel Line Meas.	Tests	Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
					10"		325	325	Date
					8 1/2"		1055	1055	Size Csg.
					6-1/4"		1690		Top "
					4-7/8"	1713'-5"	1720'		Bot. "
					2" Tbg.		1777		

PACKERS AND SHOES			
Kind	Size	Depth Set	Date Set
O.W.S. H.W. Plr.	4-7/8" x 6 1/2"	1648	7-26-19

TORPEDO RECORD						
Date	No. Qts.	Size Shell	Top Shot	Bottom	Results	
5-31-97	20					
6-26-97	20					
11-2-98	90					

Total Depth 1767

DRILLING DEEPER				
Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD					
Filled With	From	To	PLUG		
			Size	Kind	Depth

Initial Prod. Sand * At Completion * 30 Days After *

Oil **Keener**

Gas

APPROVED _____ Supt.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

RECEIVED
Office of Oil and Gas

MAR 17 2014

WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: March 11, 2014
2) Operator's Well Number S.A. Joy # 2

3) API Well No.: 47 - 095 - 0586

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>Charity Gas Co.</u>	Name <u>N/A</u>
Address <u>RR 3 Box 62</u>	Address _____
<u>Salem, WV 26426</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1476 407 Claylick Road</u>	Name <u>N/A</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>(304) 380-7469</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 Triad Hunter LLC
 By: Rocky Roberts
 Its: Senior VP Appalachian Operations
 Address 125 Putnam Street
Marietta, Ohio 45750
 Telephone (740) 374-2940

RECEIVED
 Office of Oil and Gas
 MAR 17 2014

Subscribed and sworn before me this 10th day of March, 2014
Elizabeth J. Juby
 My Commission Expires 2-29-16
 Notary Public
 WV Department of Environmental Protection
 My Commission Expires 2-29-16

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 depprivacyofficer@wv.gov.

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OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To Charity Gas Co
 Street, Apt. No.,
 or PO Box No. RR3 BOX 62
 City, State, ZIP+4 Salem, WV 26426

PS Form 3800, August 2006 See Reverse for Instructions

BEN



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 Triad Hunter LLC OP Code _____

Watershed Elk Fork Quadrangle Porters Falls

Elevation 875' (GPS 870') County Tyler District Ellsworth

Description of anticipated Pit Waste: saltwater, oil, gel, and freshwater

Will a synthetic liner be used in the pit? yes

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number UIC # 2D0855151)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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]

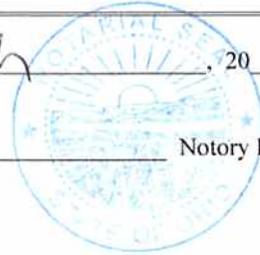
Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

Subscribed and sworn before me this 10th day of March, 2014

[Signature]

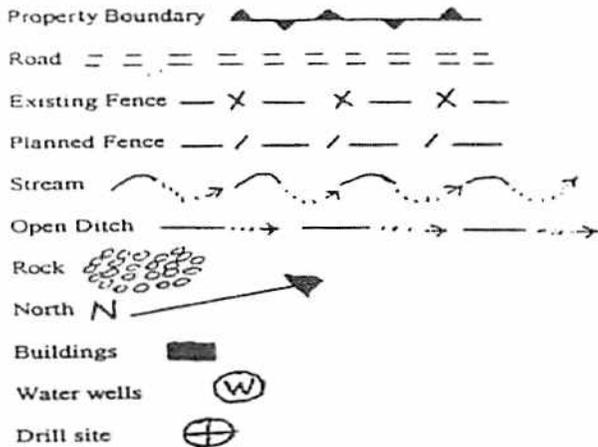
Elizabeth R. Suby



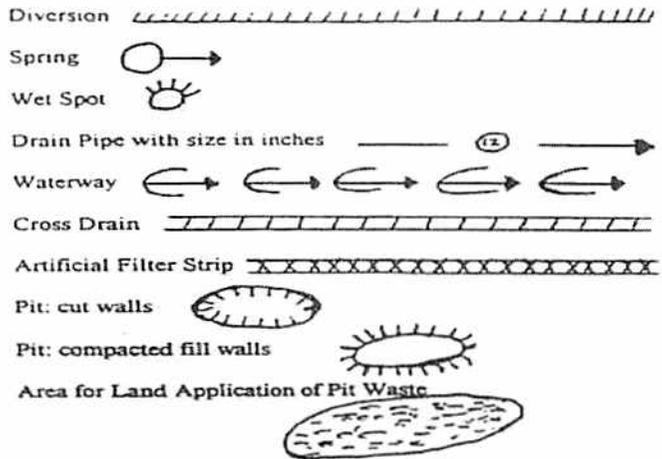
Notary Public

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Office of Oil and Gas
2-29-14

My commission expires 2-29-16



LEGEND



Proposed Revegetation Treatment: Acres Disturbed One +/- Prevegetation pH 5.5
 Lime Two (2) Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)
 Mulch 90 - 100 bales / acre Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	30%	Orchard Grass	30%
Rye (Annual & BT)	35%	Rye (Annual & BT)	35%
Timothy (Climax)	25%	Timothy (Climax)	25%
Clover (Medium Red)	10%	Clover (Medium Red)	10%

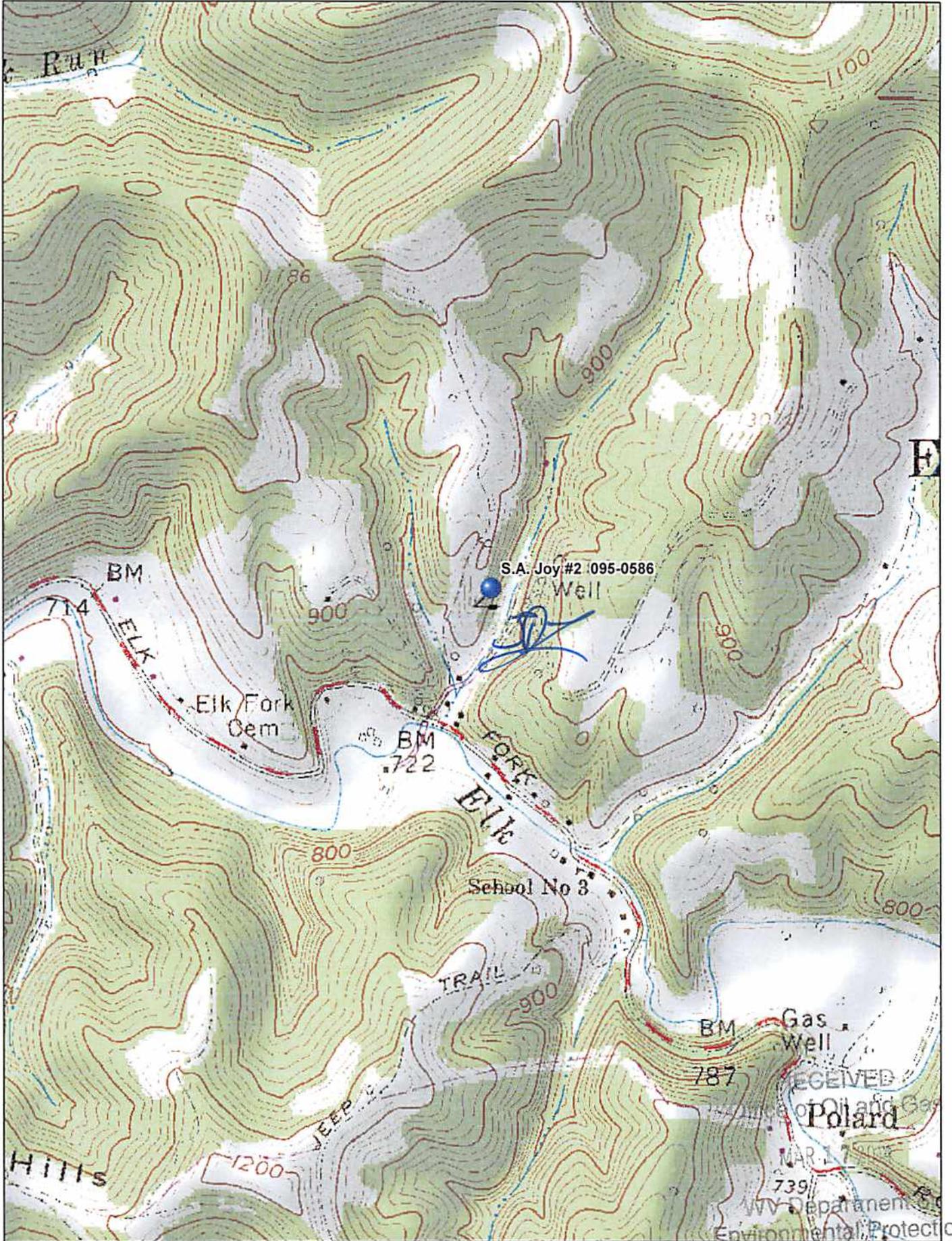
Attach:
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

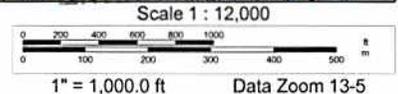
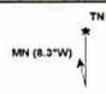
Plan Approved by: [Signature]
 Comments: _____

Title: Inspector Date: 3-12-14
 Field Reviewed? (X) Yes () No

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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-095-0586 WELL NO.: 2

FARM NAME: S. A. Joy

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Tyler DISTRICT: Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: Charity Gas Co.

ROYALTY OWNER: _____

UTM GPS NORTHING: 4375999,8153745

UTM GPS EASTING: 512235,80336059 GPS ELEVATION: 870'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS _____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS : Post Processed Differential

Real-Time Differential _____

4. Letter size copy of the topography map showing the well location

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Geologist
Title

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Office of Oil and Gas
MAR 17 2014
4/15/2013
Date
West Virginia Department of
Environmental Protection