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

March 18, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500576, 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 penalities 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: 4
Farm Name: GORRELL, W. W.
API Well Number: 47-9500576
Permit Type: Plugging
Date Issued: 03/18/2016

95005767

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

CK# 2581
$100.00
9500576P

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. W.W. Gorrell # 4
3) API Well No. 47- 095 - 00576

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 X or Underground storage ____) Deep ____ / Shallow X

5) Location: Elevation 868' GPS Watershed Hills Run
District Ellsworth County Tyler Quadrangle Porters Falls

6) Well Operator Triad Hunter, LLC
Address 125 Putnam Street
Marietta, Ohio 45750

7) Designated Agent Kim Arnold
Address P.O. Box 154
Waverly, W.V. 26184

8) Oil and Gas Inspector to be notified
Name Derek Haught
Address P.O. Box 85
Smithville, W.V. 26178

9) Plugging Contractor
Name Triad Hunter, LLC
Address 125 Putnam Street
Marietta, Ohio 45750

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 permitted work can commence.

Work order approved by inspector _____ Date 1-21-16

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WW – 4B WORK ORDER ATTACHMENT – Plugging Procedure

1. MIRU service rig, pull rods and tubing out of hole, clean hole to total depth, dig pit and install pit liner.
2. Run 2 3/8" 8rnd tubing to total depth, pump / set a 250 ft. bottom hole cement plug using Class A Cement, pump gel ahead of cement.
3. Check depth of cement plug, cut casing above cement top and pull casing out of hole.
4. Run 2 3/8" tubing to cut depth and pump / set a 100 ft. cement plug using Class A Cement, pump gel ahead of cement.
5. Pull and set 2 3/8" tubing fifty feet below elevation depth, pump / set a 100 ft. cement plug using Class A Cement, pump gel ahead of cement.
6. Pull and set 2 3/8" tubing 200 feet below surface, pump Class A cement through tubing until cement is circulated to surface.
7. Pull 2 3/8" tubing out of hole and top load hole with Class A Cement.
8. Erect a 3' X 6" monument pipe, fill it with cement, and attach an identification plate to the monument pipe.
9. RDMO service rig and all surface equipment (tanks, pumping units, casing, ect.).
10. Remove waste fluids from pit and haul fluids to production yard for solidification.
11. Reclaim location and lease road.
12. Haul solidified waste materials to landfill.

DMH
1-21-16

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47-095-0576

Lease No. Acres | Farm Name W. W. GORRELL | Well No. 4 Plug.

N. 6 S. E. W. 13 | Location Made | Purchased From Barron Kidd

Civil District Ellsworth | Rig Completed | Date Purchased 4/1/60

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

Kind	Top	Bottom	Steel Line Meas.	Tests
coal	285			
First Cow Run	1115			
Salt Sand	1335			
Lime Stone	1705			
Big Injun Sand	1778			
First Pay	1783			
	15' thickness			
TOTAL DEPTH		1798		

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
8¼		930		Date
6-5/8		1685 V		Size Csg.
				Top Csg.
				Bot. Csg.

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Results

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

APPROVED

Supt.

* Oil in Barrels
* Gas in M. Cu. Ft.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

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9500576P
CK 2581
100.00

WW-4A
Revised 6-07

1) Date: January 15, 2016
2) Operator's Well Number
W.W. Gorrell # 4

3) API Well No.: 47 - 095 - 00576

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: John and Leah Starkey
Address: 6606 Tyler Hwy.
Sistersville, W.V. 26175

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Derek Haught
Address: P.O. Box 85
Smithville, W.V. 26178
Telephone: (304) 206-7613

5) (a) Coal Operator
Name: N/A
Address:

(b) Coal Owner(s) with Declaration
Name: N/A
Address:

Name:
Address:

(c) Coal Lessee with Declaration
Name: N/A
Address:

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: Mike Horan
Its: Vice - President Appalachian Operations
Address: 125 Putnam Street
Marietta, Ohio 45750
Telephone: (740) 374-2940

Subscribed and sworn before me this 13th day of January, 2016
Elizabeth R. Tebay Notary Public
My Commission Expires 2-29-16

ELIZABETH R. TEBAY
NOTARY PUBLIC
In and for The State of Ohio
My Commission Expires

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FEB 2 2016
WV Department of
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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.

9500576P

SURFACE OWNER WAIVER

Operator's Well Number W.W. Gorrell # 4

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) 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.

Comments must be in writing. Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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.

FOR EXECUTION BY A NATURAL PERSON ETC.

X John W Stankey
Signature

Date 1-27-16

FOR EXECUTION BY A CORPORATION,

Name _____
By _____
Its _____ Date _____

Signature Date

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9500576P

WW-9
(2/15)

API Number 47 - 095 - 00576
Operator's Well No. W.W. Gorrell # 4

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Triad Hunter, LLC OP Code _____

Watershed (HUC 10) Hills Run Quadrangle Porters Falls

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: Freshwater, Saltwater, Oil, Gel

Will a synthetic liner be used in the pit? Yes ☑ No ☐ If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
■ Off Site Disposal (Supply form WW-9 for disposal location)
■ Other (Explain Pit fluids will be hauled to production yard, solidified, and hauled to Wetzel Co. landfill for disposal.

Will closed loop system be used? If so, describe: N/A - Plugging Operation

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A - Plugging Operation

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

Additives to be used in drilling medium? N/A - Plugging Operation

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A - Plugging Operation

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

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

DMH
1-21-16

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 _____

Company Official (Typed Name) Mike Horan

Company Official Title Vice - President Appalachian Operations

Subscribed and sworn before me this 18th day of January, 2016

Elizabeth R Irby Notary Public

My commission expires 2-29-16

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Form WW-9

Operator's Well No. W.W. Gorrell # 4

Triad Hunter, LLC

Proposed Revegetation Treatment: Acres Disturbed One +/- Prevegetation pH 5.5

Lime One - Two Tons/acre or to correct to pH 6.5

Fertilizer type Agland 5-10-10

Fertilizer amount 500 lbs/acre

Mulch 75 - 100 bales hay / straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
		Pasture Mix	200
		(Contains: Orchard Grass, Rye, Timothy, and Clover)	

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: [signature]

Comments:

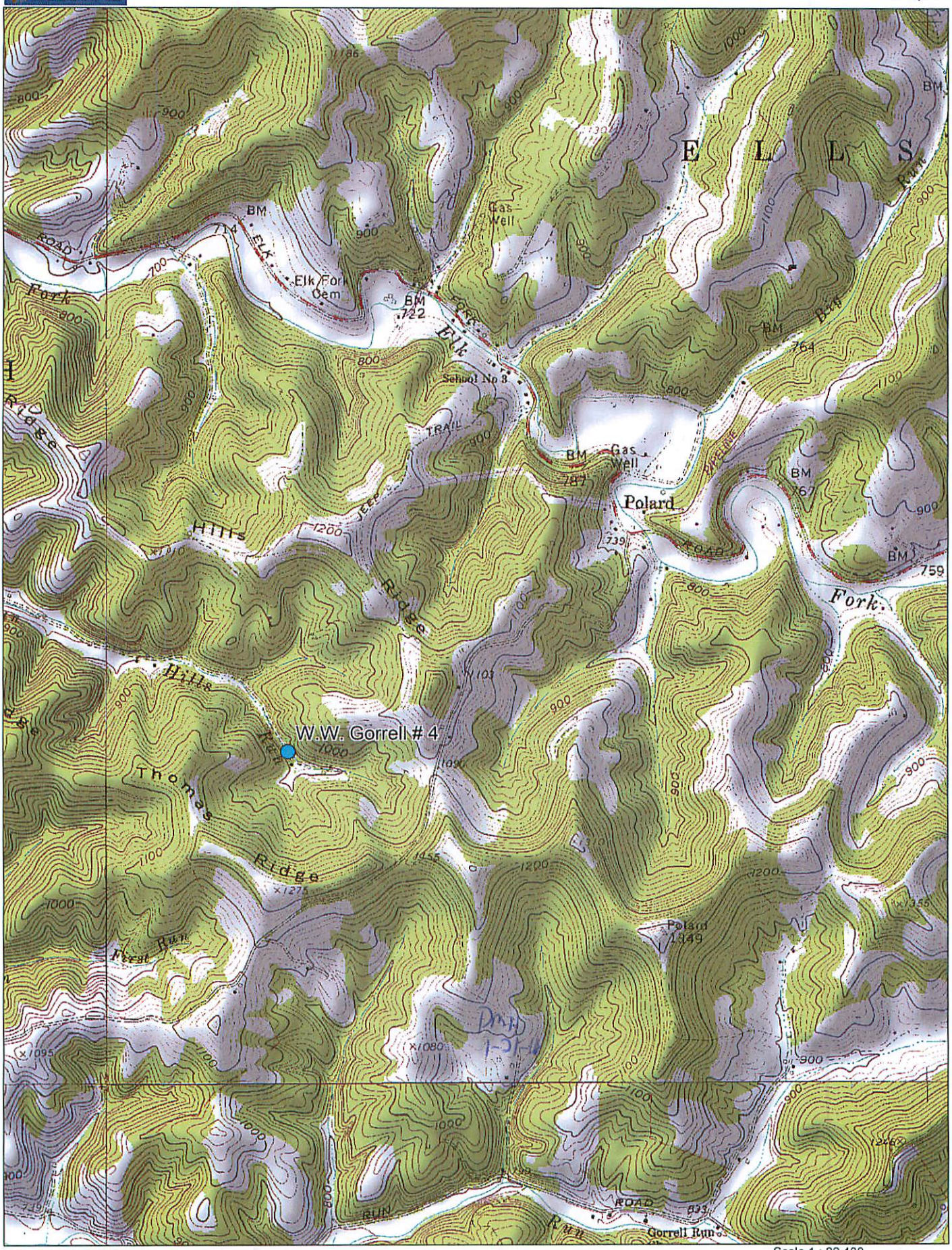
Title: Oil + Gas Inspector Date: 1-21-16

Field Reviewed? (✓) Yes ( ) No

9500576P

DeLORME

XMap® 7



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TN

MN (8.4°W)

Scale 1 : 22,400

1" = 1,866.7 ft

Data Zoom 13-2

9500576P

WW-7
8-30-06

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

API: 47-095-00576 **WELL NO.:** 4

FARM NAME: W.W.. Gorrell

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Tyler **DISTRICT:** Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: John & Lean Starkey

ROYALTY OWNER: Unknown

UTM GPS NORTHING: 4373724.76269

UTM GPS EASTING: 511556.85378 **GPS ELEVATION:** 264.566(868')

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 X: Post Processed Differential _____

Real-Time Differential X

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) | 1/14/2016 (Date)