**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 24, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9500631, 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: WILLIAMS, JOSEPH
**API Well Number: 47-9500631**
**Permit Type: Plugging**
Date Issued: 06/24/2015

**Promoting a healthy environment.**

9500631P

# 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.

9500631P

WW-4B
Rev. 2/01

1) Date Maarch 15, 2015
2) Operator's Well No. Joseph Williams # 4
3) API Well No. 47- 095 - 0631

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 1023' ( 1028' GPS ) Watershed Elk Fork
District Ellsworth County Tyler Quadrangle Porters Falls

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

7) Designated Agent Kimberly Arnold
Address P.O. Box 154
Waverly, WV

8) Oil and Gas Inspector to be notified
Name Michael Goff
Address P.O. Box 134
Pullman, WV 26421

9) Plugging Contractor
Name N/A
Address

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

( SEE ATTACHMENT )

Received
Office of Oil & Gas
APR 23 2015

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

Work order approved by inspector Michael Goff Date 4/2/15

9500631P

# ELK FORK PLUGGING PROCEDURE

## ( 2015 )

1. Remove rods and tubing and clean hole to total depth.
2. Run tubing to the base of the shot hole and cement shot hole with 50 – 75 sacks of Class A Cement **( Bottom Hole Plug ).**
3. Try to pull 5 3/16" or 4 7/8" casing. If unable to pull casing, set tubing just below casing string and pump a 100' Class A cement plug **( Casing Plug ).**
4. MIRU wireline company; check depth of cement plug and cut / rip casing apart just below elevation depth. Pull casing OOH.
5. Run tubing to depth of casing cut and set a 100' Class A cement plug in annulus **( Cut Plug ).** Pull tubing OOH.
6. Run wireline back in hole; check depth of cement plug and perforate the 6 ¼" or 6 5/8" casing @ 200 feet with 4-6 perforations.
7. Run tubing just below the perforations and circulate Class A Cement to surface. Pull tubing out of hole and top load hole with Class A Cement **( Surface Plug ).**
8. Erect / Weld a 3' x 6" monument pipe to the existing casing. Load monument pipe with Class A Cement and attach an identification plate to the monument pipe containing the permit number of the well.
9. Remove service rig and all other supporting equipment including tanks, separator, and other production equipment.
10. Reclaim well site and lease road.

Received
Office of Oil & Gas
MAG
APR 23 2015
4/2/15

**NOTE!** Pump gel spacers between all cement plugs.

47-095-00631P

Elev. 1023

H.No.3622

LEASE NO. 782 ACRES 136 FARM NAME Joseph Williams WELL NO. 4

N. 6 S. E. W. 13

Civil District Ellsworth

County Tyler

State W.Va.

GAS OIL Rights Owned By

Location Made

Rig Completed

Dr'g Commenced

Dr'g Completed

Dr'g Contractor

Purchased From H.C.&R.

Date Purchased 3-1-43

Sold To

Date Sold

Date Abandoned

## FORMATION

| Kind | Top | Bottom | Steel Line Meas. | Tests |
|---|---|---|---|---|
| Keener | 1913 | | | |
| Oil | 1918 | | | |
| Total Depth | | 1934 | | |

## CASING RECORD

| Size | Bottom Casing Steel Line | Put in Well Tally Meas. | Pulled Tally Meas. | Cemented |
|---|---|---|---|---|
| 6 1/4" | | 1741 | | Date |
| 4 7/8" | 1855'-7" | 1869'-7 | | Size Csg. |
| | | | | Top " |
| | | | | Bot. " |

## PACKERS AND SHOES

| Kind | Size | Depth Set | Date Set |
|---|---|---|---|
| 6 1/4"X4 7/8"X16" NW Parnaco | | 1855'-7" | 9-27-37 |

## TORPEDO RECORD

| Date | No. Qts. | Size Shell | Top Shot | Bottom | Results |
|---|---|---|---|---|---|
| Aug 29.1937 | 30 | 4"X12' | 1919 | 1931 | |

## DRILLING DEEPER

| Commenced | Completed | Original Depth | Final Depth | Contractor |
|---|---|---|---|---|
| | | | | |

## ABANDONMENT RECORD

| Filled With | From | To | PLUG Size | PLUG Kind | PLUG Depth |
|---|---|---|---|---|---|
| | | | | | |

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

Oil Keener

Gas

★ Oil in Barrels
★ Gas in M. Cu. Ft.

APPROVED

Supt.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

Received
Office of Oil & Gas
APR 23 2015

9500631P

**ELK FORK FIELD**

Permit Number : 47-095-0631

Well Name : Joseph Williams #4

District : Ellsworth

County : Tyler

Date Drilled : N/A

Total Depth : 1934'

Elevation : 1023'

Producing Zone : Keener

Shot Hole Depth : 1919' - 1931'

Casing Depths : 10" _____ 8 ¼" _____ Tubing Depth : 2" _____

6 5/8" _____ 6 ¼" 1741'

5 3/16" _____ 4 7/8" 1869'

Remarks : 4 7/8" set on H.W. Packer

Top Keener 1913' (-890)

Oil @ 1918'

<Shot time>

(unknown)

Received Office of Oil & Gas APR 2 3 2015

9500631P

"Pipeline"

Select County: (095) Tyler

Enter Permit #: 0631

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

**Well: County = 95 Permit = 0631**

Report Time: Thursday, February 14, 2013 4:35:21 PM

Location Information: View Map

| API | COUNTY | PERMIT | TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|
| 4709500631 | Tyler | 631 | unknown | unknown | unknown | | | | |

There is no Bottom Hole Location data for this well

Owner Information:

| API | CMP_DT | SUFFIX | STATUS | SURFACE_OWNER | WELL_NUM | CO_NUM | LEASE | LEASE_NUM | MINERAL_OWN | OPERATOR | PROP_VD | PROP_TRGT_FM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4709500631 | -/-/- | Original Loc | Completed | Joseph Williams 4 | | | | | | Pennzoil Company | | |

Completion Information:

| API | CMP_DT | SPUD_DT | ELEV | DATUM | FIELD | DEEPEST_FM | DEEPEST_FMT | INITIAL_CLASS | FINAL_CLASS | TYPE | RIG | CMP_MTHD | TVD | TMD | NEW_FTG | G_BEF | G_AFT | O_BEF | O_AFT | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4709500631 | -/-/- | -/-/- | | | Unnamed | | | unclassified | unclassified | not available | unknown | unknown | | | | 0 | 0 | 0 | 0 | 0 |

There is no Pay data for this well

Production Gas Information:

| API | OPERATOR | PRD_YEAR | ANN_GAS | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4709500631 | Pennzoil Company | 1981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Pennzoil Company | 1982 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Pennzoil Company | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Triad Resources, Inc. | 2001 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Triad Resources, Inc. | 2003 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Triad Resources, Inc. | 2004 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Production Oil Information:

| API | OPERATOR | PRD_YEAR | ANN_OIL | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4709500631 | Pennzoil Company | 1981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Pennzoil Company | 1982 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Pennzoil Company | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Triad Resources, Inc. | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Triad Resources, Inc. | 2003 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500631 | Triad Resources, Inc. | 2004 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

Received
Office of Oil & Gas
APR 23 2015

9500631P

WW-4A
Revised 6-07

1) Date: March 25, 2015
2) Operator's Well Number
Joseph Williams # 4

3) API Well No.: 47 - 095 - 0631

**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: Jeffrey A. and Cheryl A. Ferrell
Address: RR 1 Box 196
Middlebourne, WV 26155
(b) Name:
Address:
(c) Name:
Address:

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:

6) Inspector: Michael Goff
Address: P.O. Box 134
Pullman, WV 26421
Telephone: ( 304 ) 549-9823

**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

Subscribed and sworn before me this 1st day of April, 2015
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
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 depprivacyoffier@wv.gov.**

9500631P

047-095-00631

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| Total Postage & Fees | $ |

Postmark Here

7014 0150 0000 9042 0630

Sent To Jeffrey & Cheryl Ferrell
Street, Apt. No.; or PO Box No. RR1 Box 196
City, State, ZIP+4 Middlebourne, WV 26155

PS Form 3800, August 2006 See Reverse for Instructions

RECEIVED
Office of Oil and Gas
APR 23 2015
WV Department of
Environmental Protection

(9 Wells)

1. J.T.A. Hawkins #1 — 47-095-00535
2. J.T.A. Hawkins #2 — 47-095-00536
3. J.T.A. Hawkins #10 — 47-095-00539
4. J.T.A Hawkins #12 — 47-095-00540
5. Wm. Ferrell #2 — 47-095-00568
6. Wm. Ferrell #5 — 47-095-00567
7. Wm. Ferrell #8 — 47-095-00566
8. H.I. Asher #2 — 47-095-00544
9. H.I. Asher #11 — 47-095-00545

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Sent To Jeffrey & Cheryl Ferrell
Street, Apt. No.; or PO Box No. RR1 Box 196
City, State, ZIP+4 Middlebourne, WV 26155

PS Form 3800, August 2006 See Reverse for Instructions

9500631P

WW-9
Rev. 5/08


API Number 47 - 095 - 0631
Operator's Well No. Joseph Williams # 4

**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 1023' ( GPS 1028' ) County Tyler District Ellsworth

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

Will a synthetic liner be used in the pit? yes 20 mi. .

MAG 4/2/15

Proposed Disposal Method For Treated Pit Wastes:

- ____ Land Application
- X Underground Injection ( UIC Permit Number UIC # 2D0859721 )
- ____ Reuse (at API Number ____ )
- ____ Off Site Dispposal (Supply form WW-9 for disposal location)
- ____ Other (Explain ____

Proposed Work For Which Pit Will Be Used:

- ____ Drilling
- ____ Swabbing
- ____ Workover
- X Plugging
- ____ Other (Explain ____

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) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

Subscribed and sworn before me this 1st day of April, 20 15

Elizabeth R. Teby Notory Public

My commission expires 2-29-16

ELIZABETH R. TEBY
NOTARY PUBLIC
State of The State of Ohio
My Commission Expires
2-29-16

9500631 P

Form WW-9

Operator's Well No. Joseph Williams # 4

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

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) 500 lbs/acre (500 lbs minimum)

Mulch 11 - 1.5 ( 50-75 bales ) Tons/acre

Seed Mixtures

| Area I Seed Type | lbs/acre | Area II Seed Type | lbs/acre |
|---|---|---|---|
| Orchard Grass | 30% | | |
| Rye ( Annual & BT ) | 35% | | |
| Timothy ( Climax ) | 25% | | |
| 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.

Received
Office of Oil & Gas
APR 23 2015

Plan Approved by: Michael Goff

Comments: Install E-n-s per WVDEP regs.

Title: Oil & Gas Inspector Date: 4/2/15

Field Reviewed? (✓) Yes ( ) No

9500631P

DELORME

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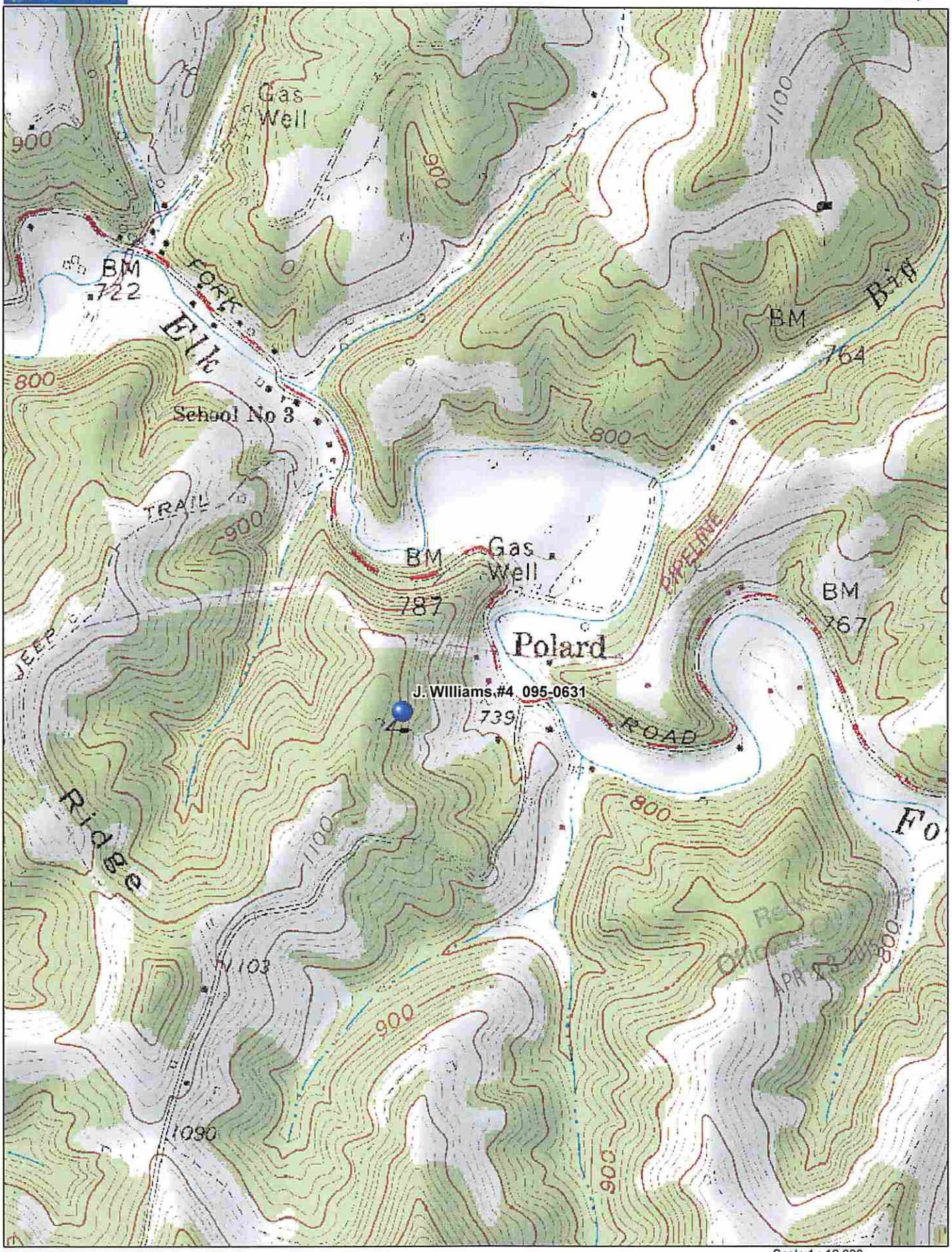


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Scale 1 : 12,000

1" = 1,000.0 ft

Data Zoom 13-5

9500631 P

WW-7
8-30-06

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

API: 47-095-0631 WELL NO.: 4

FARM NAME: Joseph Williams

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Tyler DISTRICT: Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: Jeffery A. and Cheryl A. Ferrell

ROYALTY OWNER: Jeffery A. and Cheryl A. Ferrell et al

UTM GPS NORTHING: 4374617.7669336

UTM GPS EASTING: 512720.18702141 GPS ELEVATION: 1028'

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 X: Post Processed Differential X

Real-Time Differential ____

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

Received
Office of Oil & Gas
APR 23 2015

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 | Title | Date |
|---|---|---|
| | Geologist | 4/15/2013 |

I
NOW

Operator: TRIAD HUNTER, LLC

API: 9500631

WELL No: 4

Reviewed by: gmm Date: 6/22/15

15 Day End of Comment: 04/28/15

* Well is on an Agreed Order *

## CHECKLIST FOR FILING A PERMIT

**Plugging**

Ck # 001079
$100.00

- [x] WW-4B
- [x] Inspector signature on WW-4B
- [x] Completion / Well Records of Previous Work
- [x] WW-4A (Notarized)
- [x] Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- [ ] Surface Owner Waiver
- [ ] Coal Owner / Lessee /Operator Waiver
- [x] WW-9 (Page 1) (Notarized)
- [x] Inspector Signature on WW-9 (Optional)
- [x] Topographic Map of location of well
- [x] WW-7

**OR**

- [ ] Mylar Plat (Surface owner on plat matches WW-4A)
- [x] Bond
- [x] Company is Registered with the SOS
- [x] Worker's Compensation / Unemployment Insurance account is OK
- [x] $100.00 check ($0.00 if no pit)