



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

December 11, 2013

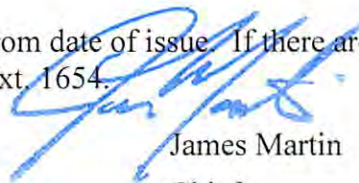
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500532, 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: B.F. HAWKINS #5
Farm Name: MARTIN, RONALD D. & SANDR/
API Well Number: 47-9500532
Permit Type: Plugging
Date Issued: 12/11/2013

Promoting a healthy environment.

12/13/2013

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. 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.
2. Well work activities shall not constitute a hazard to the safety of persons.

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.



10-2-13

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(Well Information)

ELK FORK FIELD

Permit Number: 47-095-0532 Well Name: B.F. Hawkins #5 (100 Ac.)

District: Ellsworth County: Tyler

Date Drilled: August/1897 Total Depth: 1872' Elevation: 945'

Producing Zone: Keener Shot Hole Depth: 1832'-1859'

Casing Depths: 10" 255' P_{ULLED} 8 1/4" 1121' P_{ULLED} Tubing Depth: 2" 1862'

6 5/8" 1775' 6 1/4" _____

5 3/16" 1806' 4 7/8" _____

Remarks: 5 3/16" set on Pharmaco H.W. Packer @ 1795'

Gas @ 1832', Oil @ 1834'

(-887)

(Shot 6 times)

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95 00532P

47-095-0532

Elev. 945'

LEASE NO. 740 ACRES 100 FARM NAME B. F. Hawkins H.No. 1951 WELL NO. 5

N. 7 S. E. W. 13 Location Made Purchased From H.C.R.
 Civil District Ellsworth Rig Completed Date Purchased 3-1-63
 County Tyler Dr'g Commenced 7-14-97 Sold To
 State W. Va. Dr'g Completed 8-7-97 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 | Flat in Well Tally Meas. | Pulled Tally Meas. | Cemented |
| Oil | 1836 | | | | 10" | | 255 | 255 | Date |
| Gas | 1832 | | | | 8 1/2" | | 1121 | 1121 | Size Csg. |
| | | | | | 6 1/2" 6 7/8" | | 1775 | | Top " |
| | | | | | 2" TBG. | | 1862 | | Bot. " |
| | | | | | 3 1/2" | | 719 | 719 | Dec 1932 |
| | | | | | 5 3/16" | 1785' | 1806' | | |

| PACKERS AND SHOES | | | |
|-------------------|------------------|-----------|----------|
| Kind | Size | Depth Set | Date Set |
| H.W. Pkr. | 6-5/8" x 2 1/4" | | 10-22-31 |
| Parmaeo H.W. | 6 7/8" x 5 7/16" | 1785 | 12-11-52 |

| TORPEDO RECORD | | | | | | |
|----------------|----------|------------|----------|--------|---------|--|
| Date | No. Qts. | Size Shell | Top Shot | Bottom | Results | |
| 9-3-97 | 5 | | | | | |
| 9-17-97 | 10 | | | | | |
| 10-11-97 | 20 | | | | | |
| 1-8-98 | 30 | | | | | |
| 6-2-98 | 60 | | 1839 | 1859 | | |
| 11-25-98 | 60 | | 1832 | 1852 | | |

| 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 _____ Supr.

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

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

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9500532P



Select County: (095) Tyler Select datatypes: (Check All)

Enter Permit #: 0532

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Blm 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 = 0532

Report Time: Thursday, February 14, 2013 4:17:17 PM

Location Information: [View Map](#)

| API | COUNTY | PERMIT | TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN |
|------------|--------|--------|--------------|---------|---------|--------|--------|------|------|
| 4709500532 | Tyler | 532 | 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 |
|------------|--------|--------|------------------------|---------------|----------|--------|-------|-----------|-------------|------------------|---------|--------------|
| 4709500532 | -/- | | Original Loc Completed | B F Hawkins 5 | | | | | | 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 |
|------------|--------|---------|------|-------|---------|------------|-------------|---------------|--------------|---------------|---------|----------|-----|-----|---------|-------|-------|-------|-------|---|
| 4709500532 | -/- | -/- | | | Unnamed | | | unclassified | unclassified | not available | unknown | unknown | | | 0 | 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 |
|------------|-----------------------|----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4709500532 | Pennzoil Company | 1981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Pennzoil Company | 1982 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Pennzoil Company | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Triad Resources, Inc. | 2001 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Triad Resources, Inc. | 2003 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | 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 |
|------------|-----------------------|----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4709500532 | Pennzoil Company | 1981 | 198 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Pennzoil Company | 1982 | 159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Pennzoil Company | 1983 | 164 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Triad Resources, Inc. | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | Triad Resources, Inc. | 2003 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4709500532 | 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

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WV Department of
Environmental Protection

12/13/2013

2/14/2013

CK 27699
10000

9500532 P

WW-4A
Revised 6-07

1) Date: September 19, 2013
2) Operator's Well Number
B.F. Hawkins # 5 (100 ac.)

3) API Well No.: 47 - 095 - 0532

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>Ronald D. and Sandra S. Martin</u> ✓ | Name <u>N/A</u> |
| Address <u>RR 5 Box 343 Chase Lane</u> | Address _____ |
| <u>Moundsville, WV 26041</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>497 Claylick Road</u> | Name <u>N/A</u> |
| <u>Ripley, WV 25271</u> <i>STZ</i> | 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 *Rocky Roberts*

Its: Senior VP Appalachian Operations

Address 125 Putnam Street

Marietta, Ohio 45750

Telephone (740) 374-2940

Subscribed and sworn before me this 24th day of September, 2013

Elizabeth R. Teybay Notary Public

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.

WV Department of Environmental Protection
12/13/2013

9500532P

WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 095 - 0532
Operator's Well No. B.F. Hawkins # 5 (100 ac.)

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 945' (GPS 942') County Tyler District Ellsworth

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

Will a synthetic liner be used in the pit? yes 2044.

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.

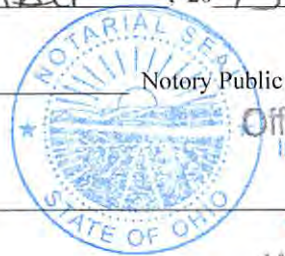
Company Official Signature *Rocky Roberts*

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

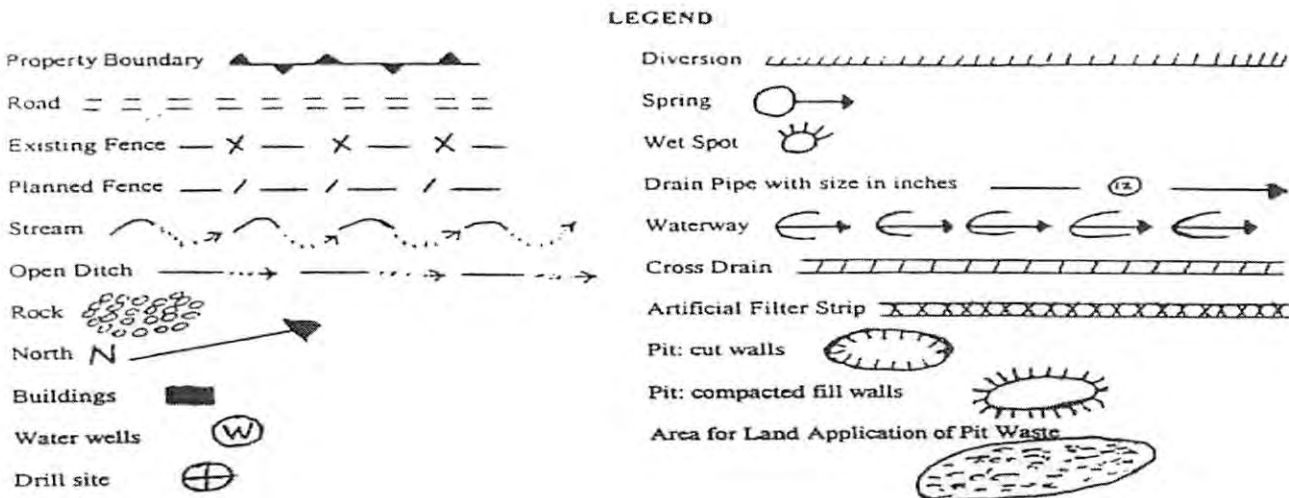
Subscribed and sworn before me this 24th day of September, 2013

Elizabeth R. Tebay



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ELIZABETH R. TEBAY
Office of Notary Public
In and For The State of Ohio
My Commission Expires
09/29/16

My commission expires 2-29-16




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: 

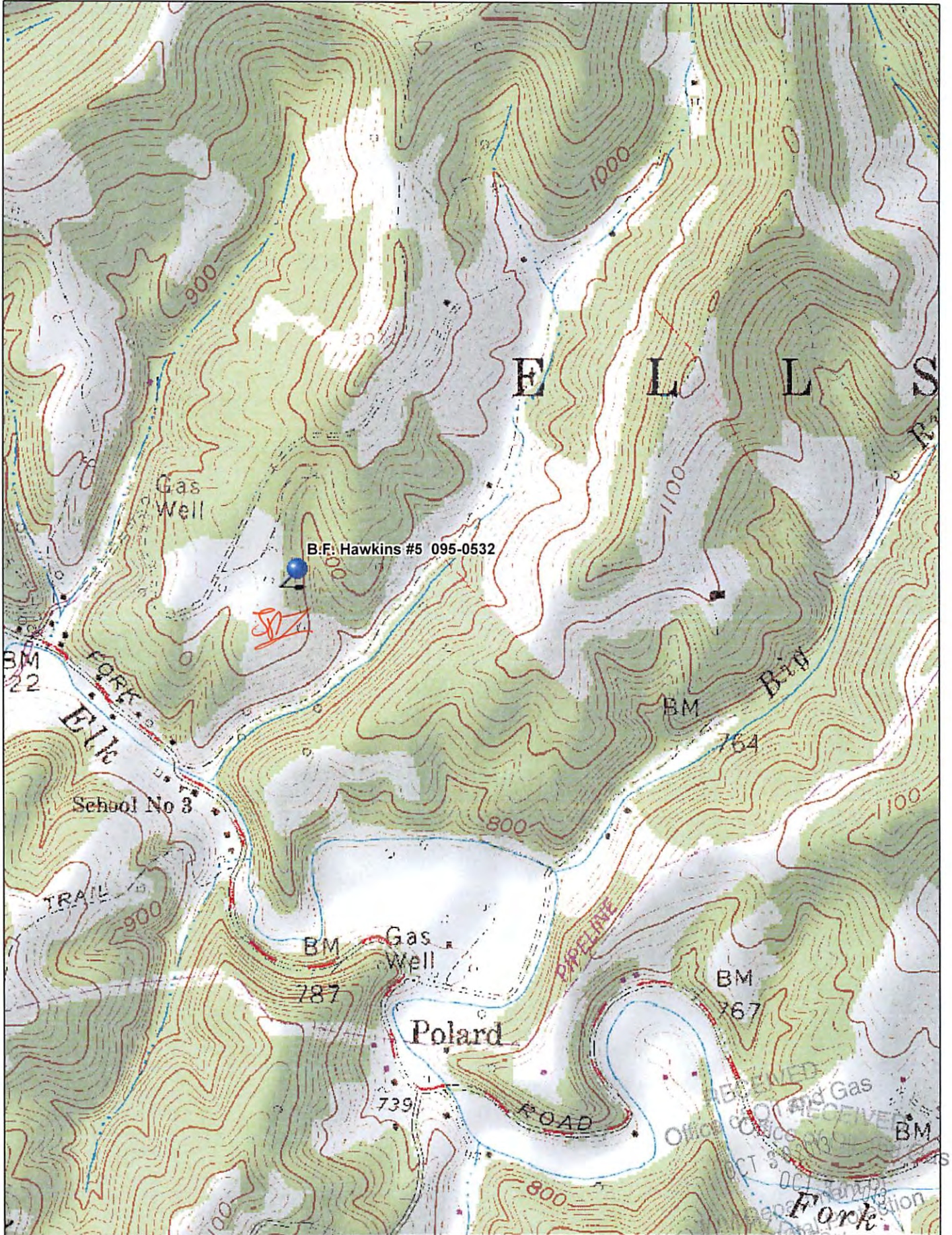
Comments: _____

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Title: Inspector Date: 10-2-13 OCT 30 2013

Field Reviewed? (X) Yes () No

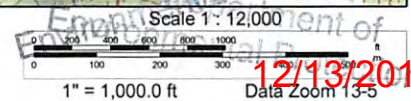
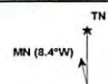
WV Department of
 Environmental Protection



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www.delorme.com



12/13/2013

WW-7
8-30-06



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

API: 47-095-0532 WELL NO.: 5

FARM NAME: B.F. Hawkins

RESPONSIBLE PARTY NAME: Triad Hunter LLC

COUNTY: Tyler DISTRICT: Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: Ronald D. and Sandra S. Martin

ROYALTY OWNER: Union National Bank (Trustees)
S. Austin Smith & C. Burke Morris

UTM GPS NORTHING: 4375858.5298237

UTM GPS EASTING: 512713.85039729 GPS ELEVATION: 942'

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.

Ben Metzger
Signature

Geologist
Title

4/15/2013
Date

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12/13/2013

JD