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 16, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4102418, issued to EQT PRODUCTION COMPANY, 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: 245
Farm Name: WALKER, JOS.
API Well Number: 47-4102418
Permit Type: Plugging
Date Issued: 03/16/2015

Promoting a healthy environment.

4102418P

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.

4102418P

Form WW-4 (B)
Permit Copy
(Rev 2/01)

Date: January 28, 2015
Operator's Well
Well No. 650606 (Jos. Walker #245)
API Well No.: 47 041 - 02418

STATE OF WEST VIRGINIA
DIVISION 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 ____ Shallow X

5) Elevation: 1194 ft. Watershed: Hackers Creek
Location: Hackers Creek County: Lewis Quadrangle: Weston
District:

6) Well Operator Address: EQT Production Company, 120 Professional Place, Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place, Bridgeport, WV 26330

8) Oil & Gas Name: Barry Stollings
Address: 28 Conifer Drive, Bridgeport, WV 26330

9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995, Buckhannon, WV 26201

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

See Attachment for details and procedures.

OFFICE USE ONLY

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

Work order approved by inspector Barry Stollings Date 2-18-15

4102418P

PLUGGING PROGNOSIS –Weston

Walker, J. #245 (650606)

Lewis Co., West Virginia
API # 47-041-02418
Quad: Hackers Creek

BY: Craig Duckworth
DATE: 1/27/15

CURRENT STATUS:

3" tbg @ 4295' (packer @ 4295' with 30 sks cem on top)

TD @ 4330'

Fresh Water @ None reported
1st Salt Sand @ None reported
Gas Shows @ 4268'
Oil Shows @ None reported
Stimulation: fractured @ 4268'
Elevation: 1220' 100' plug B.S. 2-18-15 ELEV 1194'

Salt Water @ None reported
Coal @ None reported

1. Notify State Inspector, Barry Stollings 304-553-4194, 24 hrs. Prior to commencing operations.
2. Free Point 3", cut 3" @ free point, TOOH w/ 3" tbg
3. TIH w/ tbg @ 4295'; Set 300' C1A Cement Plug @ 4295' to 4000'
4. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 3" cut. Do not omit any plugs
5. TOOH w/ tbg @ 4000'; gel hole @ 4000' to 3000'
6. TOOH w/ tbg @ 3000'; Set 200' C1A Cement Plug @ 3000' to 2800'
7. TOOH w/ tbg @ 2800'; gel hole @ 2800' to 1800'
8. TOOH w/ tbg @ 1800'; Set 200' C1A Cement Plug @ 1800' to 1600'
9. TOOH w/ tbg @ 1600'; gel hole @ 1600' to 1000'.
10. TOOH w/ tbg @ 1000'; Set 100' C1A Cement Plug @ 1000' to 900'
11. TOOH w/ tbg @ 900'; gel hole @ 900' to 500'.
12. TOOH w/ tbg @ 500'; Set 100' C1A Cement Plug @ 500' to 400'
13. TOOH w/ tbg @ 400'; gel hole @ 400' to 200'.
14. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface
15. Top off as needed
16. Set Monument to WV-DEP Specifications
17. Reclaim Location & Road to WV-DEP Specifications

650606

4102418P

CARNEGIE NATURAL GAS COMPANY

RECORD OF WELL

Map Sheet No. Weston S. W. — Well No. 2 - 245

Drilled on Joseph Walker — Farm of 200 — Acres, situate in

Hackers Creek Township District — County W. Va. — Lease No. E-4125-36

Lewis

Shipping Point Toll Gate, W. Va. — Foreman Robert Lynch

RIG — WELL

Located — Commenced Drilling Cleaning out June 3rd 1957

Notified Gen'l Office — Notified Gen'l Office

Commenced Walker-Neer Drilling Machine — Completed Drilling Cleaning out August 16, 1957

Completed — Notified Gen'l Office

Contractor — Contractor Company Tools & Men

Address — Address

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor			
Waynesburg Coal			
Mapleton Coal			
Pittsburgh Coal			Cleaned out to bottom. (4330')
Little Dunkard			Filled up to 4295'
Big Dunkard			Run 4295' of 3" Tubing (9.20#) with
Gas Sand			combination hookwall and anchor packer
1st Salt Sand			set at 4244' Cemented with 30 bags
2nd Salt Sand			Hi-Early cement on top of packer.
3rd Salt Sand			
Maxton Sand			Well was surveyed by Birdwell Co. and
Little Lime			gas was found to be at 4268'
Pencil Cave			Well was fractured with oil and sand.
Big Lime			Considerable sand was blown up in to tubing
Big Injun			and was cleaned out to bottom.
Gantz Sand			Gas tested 84,000 cu ft.
50 Foot Sand			
30 Foot Sand			
Gordon Stray			
Gordon Sand			
4th Sand			
5th Sand			
Bayard Sand			
Elizabeth			
Speechley			Hole filled to 4295'
Tiona			
Bradford			

PRESSURE AND VOLUME

¼ Minute		Lbs.
1 "	0	"
2 "	1	"
3 "	1½	"
4 "	2½	"
5 "	4	"
10 "	9	"
15 "	14	"
30 "	26	"
1 Hour	54	"
Rock	340	in 48 hr
Size of Tubing	3	Inch
Size of Casing		"
Vol by Water	84,000	cu f
" " Mercury		
" " Pressure		

CONNECTED TO MAIN LINE

Length of Line — Feet

Size of Line — Inch

DISCONNECTED FROM LINE

Notified Lessor

Abandoned

Repacked

With — Feet — Tubing

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Total Depth 4295 — Feet at $ — per Foot $

Gas Fun ished at — Cents per Foot

CASIN 3 RECORD

SIZE	CHARGED TO WELL Foot	In.	PUT IN WELL Foot	In.	PULLED Feet	In.	LEFT IN WELL Feet	In.	TRANSFERRED Feet	In.	LEFT AT WELL Feet	In.
3"	4335		4295				S-40 4295					

PACKER

Kind Combination Hookwall

Size 3" x 7"

Set at 4244 Feet

WELL SHOT

Sandfractured

By Dowell Incorporated

With — Qts. at — Feet

Casing Cemented in Well.....by.....Company Employee

4102418P

WW-4-A
Revised 6/07

1) Date: January 28, 2015
2) Operator's Well Number
650606 (Jos. Walker #245)
3) API Well No.: 47 041 - 02418
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4) Surface Owner(s) to be served:
(a) Name John R. and Lisa Spiker
Address 747 Landmark Est.
Jane Lew, WV 26378

(b) Name
Address

(c) Name
Address

6) Inspector Barry Stollings
Address 28 Conifer Drive
Bridgeport, WV 26330
Telephone (304) 552-4194

5) (a) Coal Operator:
Name None
Address

(b) Coal Owner(s) with Declaration
Name
Address

Name
Address

(c) Coal Lessee with Declaration
Name None
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 Division 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: **EQT Production Company**
By: **Victoria J.Roark**
Its: **Permitting Supervisor**
Address: **PO Box 280**
Bridgeport, WV 26330
Telephone: **(304) 848-0076**

Subscribed and sworn before me this 29th day of January, 2015
Misty S. Christie Notary Public
My Commission Expires: 2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

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Office of Oil and Gas
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4102418P

FIRST-CLASS MAIL
$07.40
ZIP 26330
041L10228892

neopost
01/29/2015
US POSTAGE

CERTIFIED MAIL™

7014 0150 0001 0654 7566
7014 0150 0001 0654 7566

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	$	Vicki R
Certified Fee		
Return Receipt Fee (Endorsement Required)		Postmark Here
Restricted Delivery Fee (Endorsement Required)		
Total Postage		

Sent To John R. and Lisa Spiker
Street, Apt. No. or PO Box No. 747 Landmark Est.
City, State, ZIP+4 Jane Lew, WV 26378

#65060b

PS Form 3800, August 2006 See Reverse for Instructions

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JAN 30 2015
WV Department of
Environmental Protection

1. Article Addressed to:
John R. and Lisa Spiker
747 Landmark Est.
Jane Lew, WV 26378

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label) 7014 0150 0001 0654 7566

PS Form 3811, July 2013 Domestic Return Receipt

4102418P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
650606 (Jos. Walker #245)
3) API Well No.: 47 041 - 02418

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: ____
Watershed: Hackers Creek Quadrangle: Weston
Elevation: 1194 ft. County: Lewis District: Hackers Creek
Description of anticipated Pit Waste: **Formation Fluids**

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes___ No X
Will synthetic liner be used in the pit? **Yes** Is so, what ml.? ~~10 ml~~ 20 ML.

Proposed Disposal Method for Treated Pit Wastes:
- X Land Application
- ____ Underground Injection - UIC Permit Number ____
- ____ Reuse (at API Number) ____
- ____ Offsite Disposal Permit #.
- ____ Other: Explain ____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. ____
If oil based, what type? Synthetic, petroleum, etc.
Additives to be used? ____

Will closed loop system be used? ____
Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. ____
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust ____
Landfill or offsite name/permit number? ____

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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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 or Printed) Victoria Roark
Company Official Title Permitting Supervisor-WV
Subscribed and sworn before me this 24th day of January, 2015
Misty S. Christie Notary Public
My Commission Expires 2/20/18

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S. Christie
1207 Buckeye Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

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OPERATOR'S WELL NO.:
650606 (Jos. Walker #245)

LEGEND

Property Boundary

Diversion

Road

Spring

Wet Spot

Planned Fence

Drain Pipe with size in inches

Water Way

Existing Fence

Stream

Cross Drain

Open Ditch

Artificial Filter Strip

Rock

North

N

Building

Water well

W

Drill site

Pit with Cut Walls

Pit with Compacted Walls

Area of Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

Area I

Seed Type	lbs/acre
Red Fescue	40
Alsike Clover	5
Annual Rye	15

Area II

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

ATTACH:

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

Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Barry Stalnaker

Comments: _____

Title: inspector Date: 2-18-13

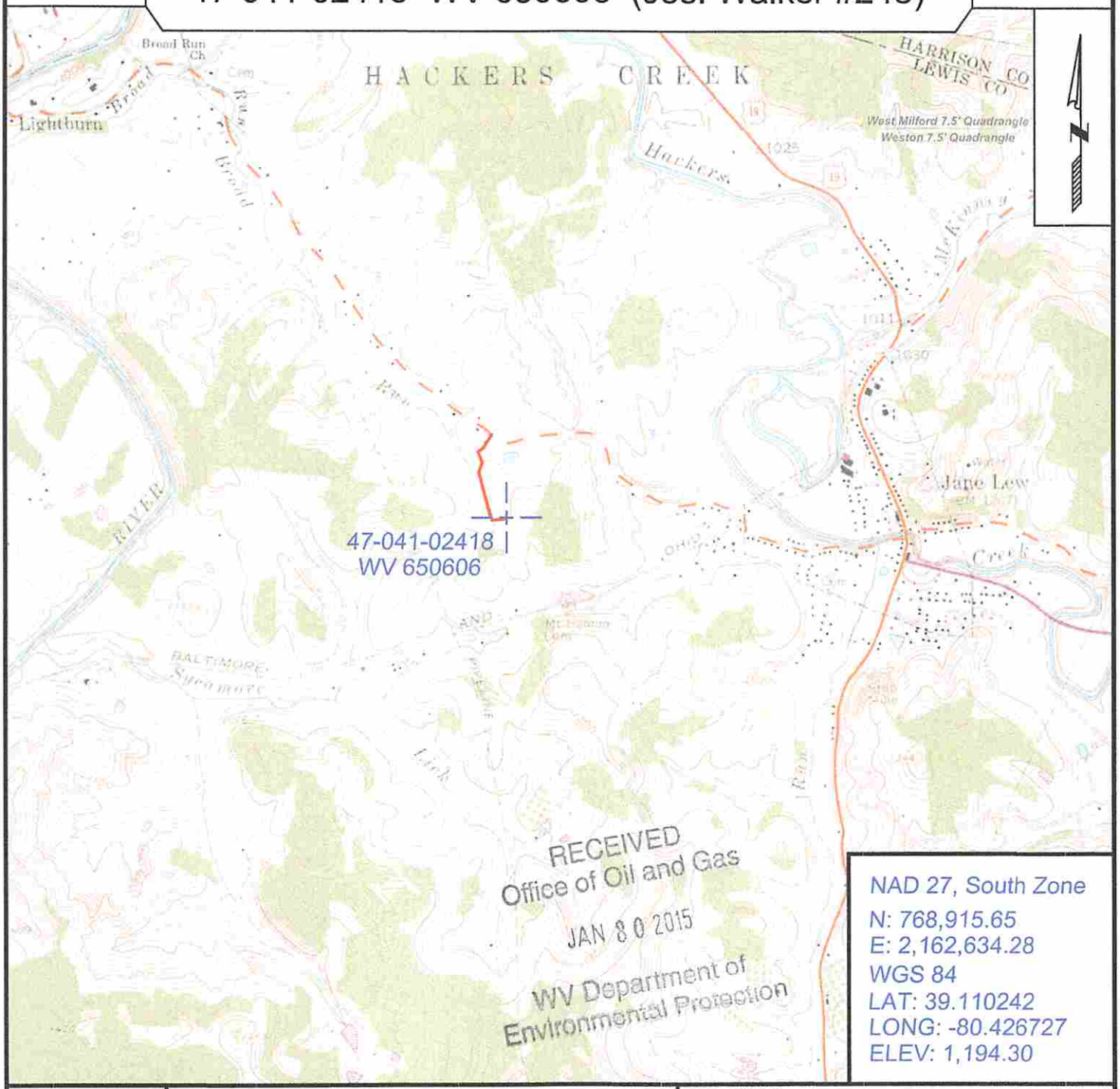
Field Reviewed? ✓ Yes ____ No

4102418P

Topo Quad:	Weston 7.5'	Scale:	1 " = 2000'
County:	Lewis	Date:	January 21, 2015
District:	Hackers Creek	Project No:	73-12-00-08

47-041-02418 WV 650606 (Jos. Walker #245)

Topo



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JAN 30 2015
WV Department of
Environmental Protection

NAD 27, South Zone
N: 768,915.65
E: 2,162,634.28
WGS 84
LAT: 39.110242
LONG: -80.426727
ELEV: 1,194.30

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

4102418P

WW-7
8-30-06

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

API: 47-041-02418 **WELL NO.:** WV 650606 (Jos. Walker #245)

FARM NAME: Jos. Walker

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Lewis **DISTRICT:** Hackers Creek

QUADRANGLE: Weston 7.5'

SURFACE OWNER: John & Lisa Spiker

ROYALTY OWNER: Donald Gooden, et al

UTM GPS NORTHING: 4329167

UTM GPS EASTING: 549564 **GPS ELEVATION:** 364 m (1194 ft)

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.**

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.

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JAN 30 2015
WV Department of
Environmental Protection

Signature	Title	Date
	PS #2180	1/21/15

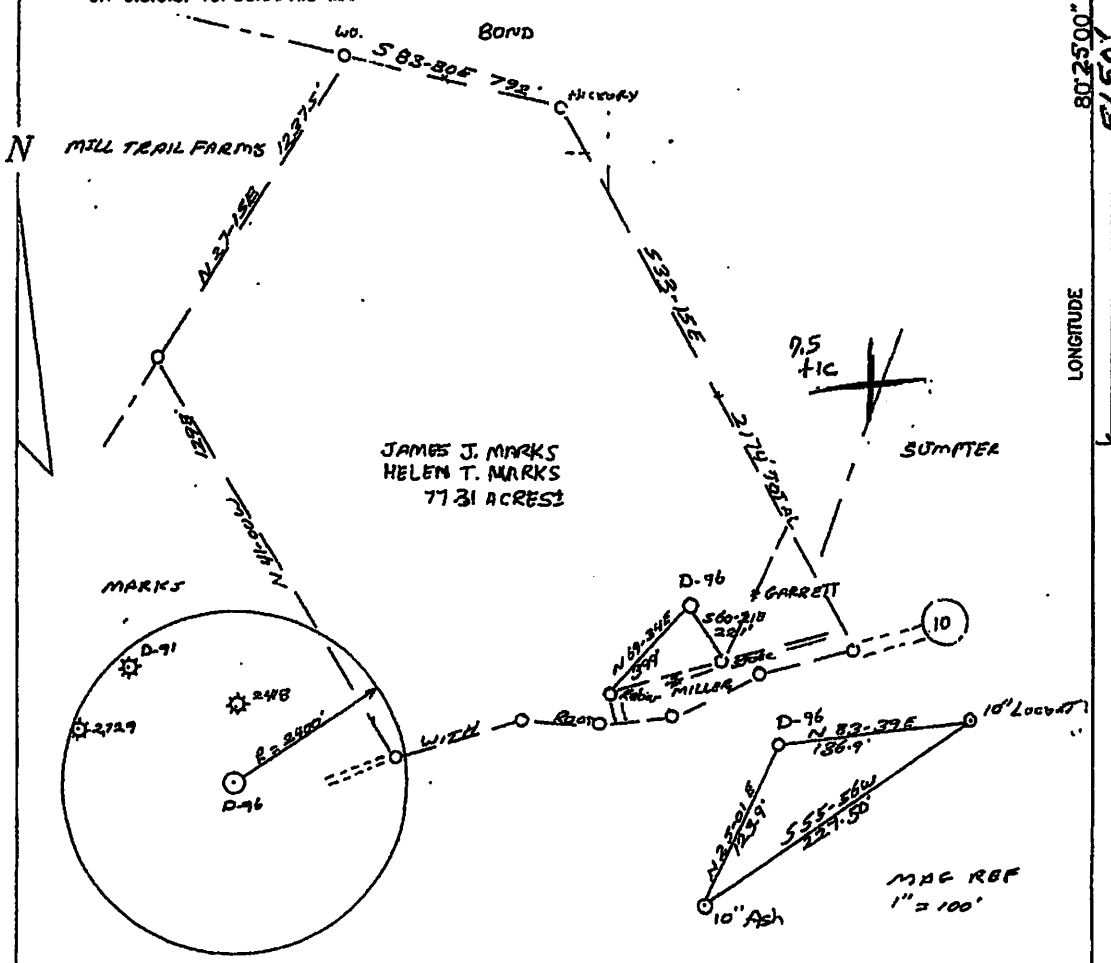
2975 → 4102418P

(+) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

LATITUDE 39°07'30"

LONGITUDE 80°22'30"

5650'



FILE NO. _____
DRAWN BY _____
SCALE 1" = 500'
MIN. DEGREE OF ACCURACY 1 ÷ 200
PROVEN SOURCE OF ELEVATION: ROAD INT S/E OF LOC. EL 1052

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT IT SHOWS ALL INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Dale P. Beatty
R.P.E. _____ L.L.S. 954

DATE SEPTEMBER 13, 2001

DATE _____, 19__
OPERATORS WELL NO. 245
API WELL NO. 47- 041 - 02418

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL & GAS DIVISION

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JAN 30 2015
WV Department of Environmental Protection

WELL TYPE: OIL ____ GAS ____ LIQUID INJECTION ____ WASTE DISPOSAL ____
IF "GAS" PRODUCTION ____ STORAGE ____ DEEP ____ SHALLOW ____

LOCATION: ELEVATION 1220' WATER SHED West Fork River
DISTRICT Hackers Creek COUNTY Lewis
QUADRANGLE Weston

SURFACE OWNER _____ ACREAGE _____
OIL & GAS ROYALTY OWNER Jos. Walker LEASE ACREAGE _____
LEASE NO. _____

PRODUCING FORMATION _____ TOTAL DEPTH _____

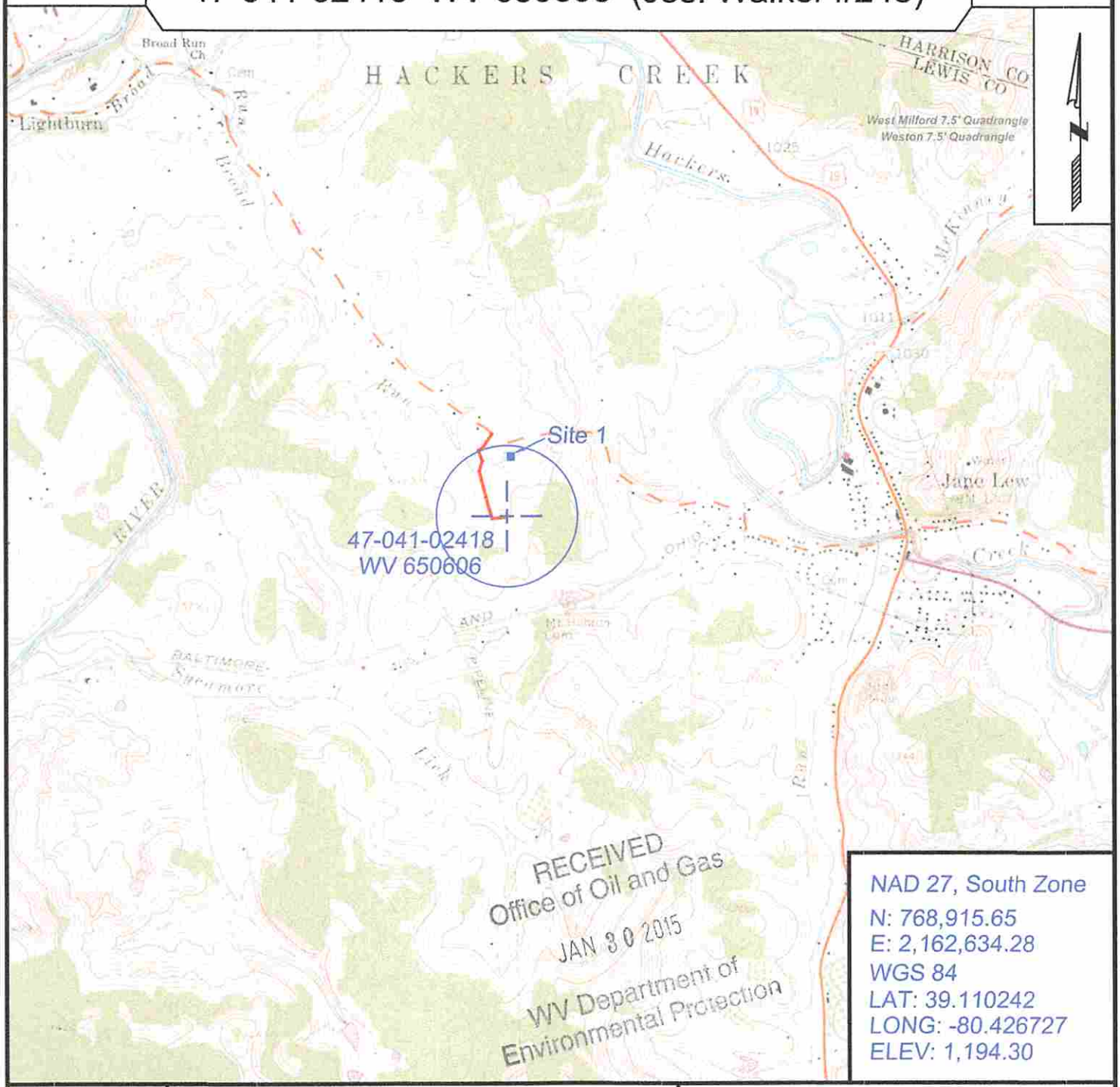
WELL OPERATOR Carnegie Natural Gas DESIGNATED AGENT _____
ADDRESS _____ ADDRESS _____

4102418P

Topo Quad:	Weston 7.5'	Scale:	1 " = 2000'
County:	Lewis	Date:	January 21, 2015
District:	Hackers Creek	Project No:	73-12-00-08

Water

47-041-02418 WV 650606 (Jos. Walker #245)



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PREPARED FOR:
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330

4102418P

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY.
LEASE NAME AND WELL No. Jos. Walker #245 – WV 650606 - API No. 47-041-02418.

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 909' +/- Owner: Francis G. & Karen B. Rogers.
Address: 1914 Broad Run Rd, Jane Lew, WV 26378. Phone No. _____.
Comments:

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Environmental Protection

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

CALDWELL OFFICE
212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

ALUM CREEK OFFICE
P.O. Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

RANSON OFFICE
401 South Fairfax Blvd, Suite 3
Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5010

ALLEGHENYSURVEYS.COM