



**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 14, 2014

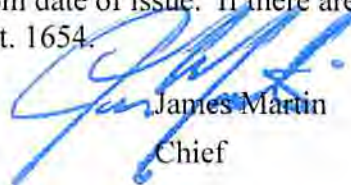
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4900371, 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 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: WV 451741 (CAMPBELL 2484)

Farm Name: NEWBRAUGH, STEVEN

**API Well Number: 47-4900371**

**Permit Type: Plugging**

Date Issued: 03/14/2014

**Promoting a healthy environment.**

**03/14/2014**

## 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.

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### CONDITIONS

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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.

Date: February 18, 2014 *CK 17262 10000*  
Operator's Well \_\_\_\_\_  
Well No. WV 451741 (Campbell #2484)  
API Well No.: 47 049 - 00371

**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: 1,402' Watershed: Bartholomew Fork  
Location: Mannington County: Marion Quadrangle: Glover Gap  
District: \_\_\_\_\_

6) Well Operator EQT Production Company  
1710 Pennsylvania Avenue  
Address: Charleston, WV 25302

7) Designated Agent: Rex C. Ray  
Address: 1710 Pennsylvania Avenue  
Charleston, WV 25302

8) Oil & Gas BILL HENDERSHOT  
Name: 403 JAMES STREET  
Address: MANNINGTON, WV 26582

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.**

RECEIVED  
Office of Oil and Gas  
FEB 24 2014  
WV Department of  
Environmental Protection

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 \_\_\_\_\_ Date \_\_\_\_\_



Record of W. J. Campbell Company 49003719  
 Well No. 2484 Marion District  
 Located on J. J. Campbell Farms  
 District Marion County Marion State West Va

Location Made 2-24-1912 First Work Done 3-1-1912  
 Rig Commenced 3-6-1912 Rig Completed 3-19-1912  
 Drilling Commenced 4-1-1912 Drilling Completed Sept 7 1912  
 Rig Contractor A. H. Guinger Drilling Contractor Chas. Logue  
 Drillers J. J. Campbell George Metz W. H. S. Co. Tools, String No.  
 Tool Dresser W. H. Guinger W. H. S. Co. Tools, String No.

101  
96  
31

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Faced Depth	Oil Faced Depth	Gas Faced Depth	REMARKS
Native Coal	1080	1086					
Pittsburg Coal	1174	1182	1174				
Little Dunkard	1535	1545	1420				
Big Dunkard	1660	1705					
Gas Sand	1835	1995					
First Salt	1966	2013	1970	1985			
Second Salt	2086	2120	2146	1998			
Maxon	2322	2382	2322				
Little Lime							Steel Line
Pencil Cave	2382	2385					13 182
Big Lime	2385	2471					10 1420 - 5
Big Injun	2471	2625	2471			2487	8 1/4 1970
Squaw			2625				6 7/8 2146 - 7
Berea							5 1/16 3272
Gantz							
Fifty Foot	3113	3158	3113				
Thirty Foot	3204	3231					
Gordon Stray	3238	3245					
Gordon	3260	3320	3272				
Fourth	3341	3377	3352				
Fifth							
Bayard							
Total Depth		3388	3388				

Sand 1770 - 1790  
 Second Gas Sand 1900 - 1910

2 6 5/8 x 8 7 Calloway  
 packers run, and  
 damaged, believe  
 hole is bad at  
 this point

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	
13" Csg.	215		183	7			183	7			31	5	13" casing left in by reason of not getting 10" csg. out steel shoe on 10" casing
10" "	1602	3	1430	10	313	4	1117	6			484	9	
8 1/2" "	2246	4	1983		1983						2246	4	
6 5/8" "	2367	9	2157	4			2157	4			210	5	
5 3/16" "	3545	3	3296	2			3296	2			249	1	
2 Tbg.	3782	9	3409	7			3409	7			373	2	

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
6 5/8 x 8 7/8	Calloway Lead Pk			
5 3/16 x 6 7/8	" Anchor	1	3288	Well shoe on 5 3/16 csg.
2 x 5 3/16	Larkin Sp. Csg	102	3303	21-10" - 2" perforation 3366-2 to 33

SHOOTING RECORD (If shot before or upon completion of well)

DATE	Quartz	Top of Shot	Bottom of Shot	Diameter	Lead	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By Whom Shot	
						Reading	Liquid	Opening	Reading	Liquid	Opening			

CEMENTING RECORD

Date Cemented..... Size Hole Cemented..... Size Casing.....  
 Top Pittsburg Coal..... Top Cementing..... Amount Cement Used.....  
 Bottom Pittsburg Coal..... Bottom Cementing..... Amount Cement Used.....  
 Mr..... of..... Coal Company on ground..... was cemented  
 Remarks: 6 5/8 casing left in at a depth of 1117 ft. on record by order from Pittsburg office  
 Dated 8-1-12

ENTERED  
 WELL BOOK SEP 26 1912 G.A.K.  
 LEASE BOOK  
 WALL MAP SEP 27 1912 J.C.L.  
 LINE MAP  
 CONTRACTORS PLAT  
 CONTRACTOR  
 TITLE  
 03/14/2014

Approved by T. J. Jones Foreman

049-371



Well No. 444 Washington District 4900371 P  
 Located on Columbia Farm  
 District Franklin County Madison State West Va.  
 Location Made 7-24-1912 First Work Done 3-1-1912  
 Rig Commenced 7-1-1912 Rig Completed 7-11-1912  
 Drilling Commenced 4-1-1912 Drilling Completed 5-2-1912  
 Contractor John T. ... Drilling Contractor John T. ...  
 Drillers ... Tool Dressers ...

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Faced Depth	Oil Faced Depth	Gas Faced Depth	REMARKS
Native Coal	108.01	108.86					
Pittsburg Coal	11.24	11.82	1174				
Little Dunkard	15.37	15.45	1420				
Big Dunkard	16.60	17.05					
Gas Sand	18.35	17.95					
First Salt	19.66	20.13	1970	17.65			
Second Salt	20.86	21.20	2146	17.78			
Ma	23.22	23.82	2322	11.75			
Little Lime							
Pencil Cave	23.82	23.85					
Big Lime	23.85	24.71					
Big Limestone	24.71	26.25	2471				
Squaw			2625				
Berea							
Gantz							
Fifty Foot	31.13	31.58	3113				
Thirty Foot	32.04	32.31					
Gordon Stray	32.38	32.45					
Gordon	32.60	33.20	3272				
Fourth	33.47	33.77	3352				
Fifth							
Bayard							
Total Depth		33.88	3376				

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Below Casing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings.
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
18" Cas.	215		180	7			183	7			81	5	5 1/2 strings left in hole
10" Cas.	1602	3	1470	10	513	4	1157	6			424	9	Reason for not
8" Cas.	2246	4	1783		1783						2246	4	String 10" cas.
6" Cas.	2367	9	2157	4			2157	4			210	5	String 10" cas.
4" Cas.	3545	3	3296	2			3296	2			249	1	String 10" cas.
2" Cas.	3782	9	3409	7			3409	7			373	2	String 10" cas.

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
6" x 6" Well	Kind			
5" x 5" Well	Kind			
4" x 4" Well	Kind			

SHOOTING RECORD (If shot before or upon completion of well)												
DATE	Quantity	Type of Shell	Bottom of Shell	Diameter	Said	Test Before Shot			Test After Shot			By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening	

CEMENTING RECORD		
Date Cemented.....	Slue Hole Cemented.....	Size Casing Cemented.....
Top Pittsburg Coal.....	Top Cementing.....	Amount Cement Used.....
Bottom Pittsburg Coal.....	Bottom Cementing.....	Amount Sand Used.....
Mr.....	of.....	Coal Compacted ground when coal was cemented
marks: <u>6 1/2" casing left in hole</u>		Signature of persons who cemented well
dated <u>8-1-12</u>		

Approved by..... Foreman

RECEIVED  
Office of Oil and Gas  
FEB 24 2014  
WV Department of Environmental Protection

03/14/2014

# Hope Natural Gas Company

N. 10 S. E. 8 W. 4900370

Well No. 2494

## Report on Defective Well

Warrington Working District

Name J. J. Campbell

Warrington District

Marion County

	ORIGINAL TEST					TEST TAKEN FOR THIS REPORT						
	Date	Reading	Liquid	Opening	Rock	Sand	Date	Reading	Liquid	Opening	Rock	Sand
GAS	1-3-12	88/10	Mercury	2"	510'	4-th	4-15-42	4/10	Water	3/8"	---	4th
OIL	Barrels (Daily / Monthly)					Barrels (Daily / Monthly)						

Record of Casing and Tubing in this Well:

13 inch 183 10 inch 1450 8 1/2 inch None 6 1/2 inch 2157 5 3/16 inch 3296 Tubing { 125' of 4 1/2" X 4"  
518 Pulled of --- inch

History of Well:

Depth of Pittsburgh Coal. 1174 Original Depth: 3293 Present Depth: 3293  
 Well Producing { Gas... Sand... at depths of { Oil Produced by None  
 Oil... Sand... Condition of Rig. None  
 Amount of Cavings in hole: None Amount of Water: 600' Amount of Oil: None  
 Date well ~~blacked~~ out: 4-15-42 Result: Unable to Bail Water

Date of Shot	Size	Sand	Result
<u>3-5-1927</u>	<u>15 lbs.</u>	<u>4th</u>	<u>30/10 Water 1" to 38/10 Water 2"</u>

What should be done with well in my opinion: 5-5/16" casing leaking water unable to bail.  
Suggest repair 5-5/16" casing, shoot and clean out.

Date 5-1-42 H. J. Master District Superintendent

I would recommend \_\_\_\_\_

Date \_\_\_\_\_ Approved \_\_\_\_\_ Division Superintendent  
 General Superintendent

Repair as per recommendation of General Superintendent \_\_\_\_\_

Date \_\_\_\_\_ Vice President

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 WV Department of  
 Environmental Protection

4900371 P

WW-4-A  
Revised 6/07

1) Date: February 18, 2014  
2) Operator's Well Number  
WV 451741 (Campbell #2484)  
3) API Well No.: 47 049 - 00371  
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 Steven Newbraugh ✓  
Address 313 Soap Hollow Road  
Mannington, WV 26582  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector BILL HENDERSHOT  
Address 403 JAMES STREET  
MANNINGTON, WV 26582  
Telephone 304-206-7750

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name CONSOLIDATION COAL CO.  
Attn: Analyst  
Address Engineering & Operations Support Dept. Coal  
CNX Center, 1000 CONSOL ENERGY DRIVE  
CANNONSBURG, PA 15317  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

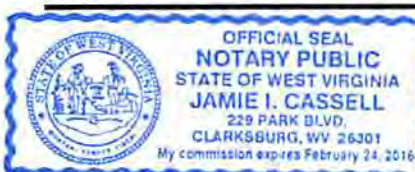
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Office of Oil and Gas  
MAR 08 2014

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-WV  
Address: P.O. Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 5th day of March, 2014  
Jamie I. Cassell Notary Public  
My Commission Expires: 2/24/2016

Received

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

Office of Oil and Gas  
WV Dept. of Environmental Protection  
03/14/2014



4900371P

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

Bill Hendershot  
403 James Street  
Mannington, WV 26582

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Restricted Delivery Fee (Endorsement Required)		
Total P:		

Postmark Here

Sent To  
Street, Apt, or PO Box  
City, State

Steven Newbraugh  
313 Soap Hollow Rd.  
Mannington, WV 26582

PS Form 3811, February 2004  
Domestic Mail  
PS Form 3800, August 2006  
See Reverse for Instructions

Steven Newbraugh  
313 Soap Hollow Rd.  
Mannington, WV 26582

2. Article Number (Transfer from service label)  
7012 3050 0001 1416 2432

1. Article Addressed to:  
Steven Newbraugh  
313 Soap Hollow Rd.  
Mannington, WV 26582

3. Service Type  
 Certified Mail  
 Registered  
 Return Receipt for Merchandise  
 Express Mail  
 Insured Mail  
 C.O.D.

4. Restricted Delivery? (Extra Fee)  
 Yes  
 No

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

B. Received by (Printed Name) \_\_\_\_\_  
C. Date of Delivery \_\_\_\_\_

A. Signature \_\_\_\_\_  
 Agent  
 Addressee

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

1. Article Addressed to:  
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  
■ Print your name and address on the reverse so that we can return the card to you.  
■ Attach this card to the back of the mailpiece, or on the front if space permits.

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

Received

MAR 10 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection  
03/14/2014

4900371P

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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total Postage: Consolidation Coal Co  
Attn: Analyst  
Sent To: Engineering & Operations Support Dept Coal  
Street, Apt. N: CNX Center, 1000 Consol Energy Drive  
or PO Box No: Cannonsburg, PA 15317  
City, State, Z: 451741 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

# Received

## FEB 24 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection



7012 3050 0001 1418 2425  
7012 3050 0001 1418 2425

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Consolidation Coal Co ✓  
Attn: Analyst  
Engineering & Operations Support Dept Coal  
CNX Center, 1000 Consol Energy Drive  
Cannonsburg, PA 15317

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
**X**  Addressee

B. Received by (Printed Name) C. Date of Delivery

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

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) 7012 3050 0001 1418 2425



C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

03/14/2014



4900371P

WW-9  
Revised 2/03

Page 1 of 2  
2) Operator's Well Number  
WV 451741 (Campbell #2484)  
3) API Well No.: 47 049 - 00371

**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: Bartholomew Fork Quadrangle: Glover Gap  
Elevation: 1,402' County: Marion District: Mannington

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.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:  
 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 *Victoria J. Roark* RECEIVED  
Office of Oil and Gas

Company Official (Typed or Printed) Victoria J. Roark

Company Official Title Permitting Supervisor- WV

Subscribed and sworn before me this 19 day of Feb.

My Commission Expires 8.24.22

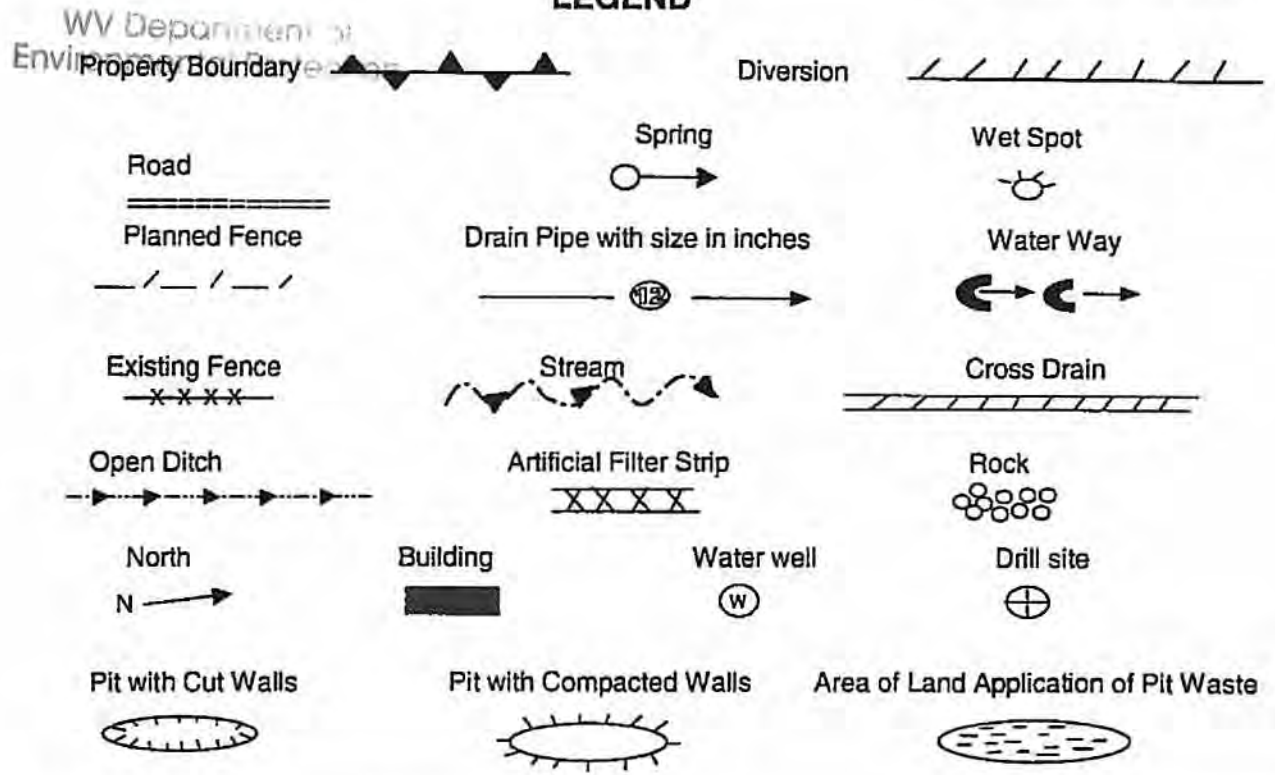
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Environmental Protection  
OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Pamela Sykes  
EQT Production  
PO Box 289  
Bridgeport, WV 26305  
My Commission Expires Aug. 24, 2022  
03/14/2014

47-049-00371P

MAR 5 2014

OPERATOR'S WELL NO.:  
WV 451741 (Campbell #2484)

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8  
 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		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

**ATTACH:**

Drawing(s) of road, location, pit and proposed area for land application.  
 Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Bill Henshaw

Comments: \_\_\_\_\_

Title: FUNDAMENTAL INSPECTOR Date: 0-25-14  
 Field Reviewed?  Yes  No

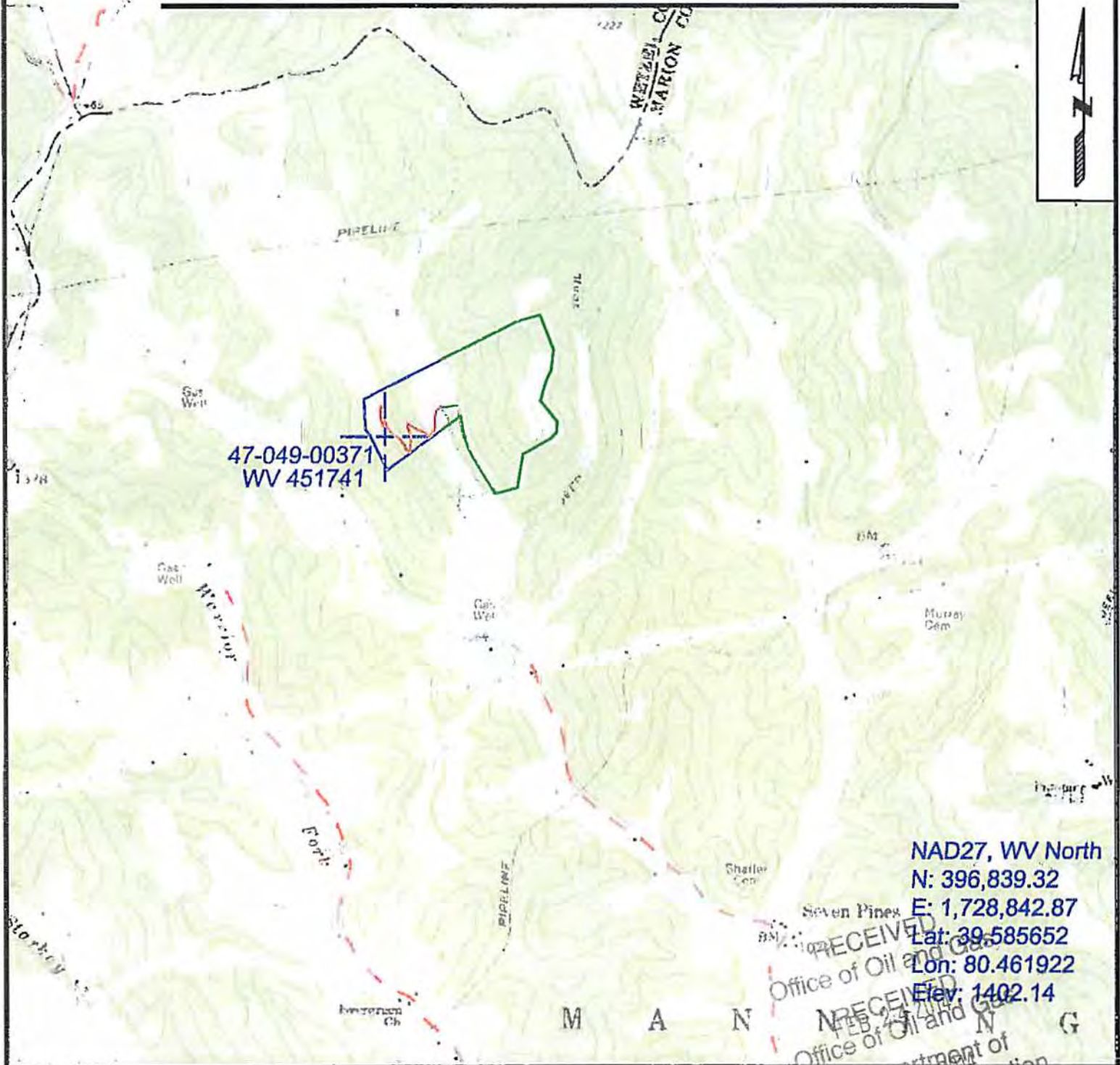


4900371P

Topo Quad: Glover Gap Scale: 1" = 2000'  
 County: Marion Date: July 30, 2013  
 District: Mannington Project No: 74-18-00-08

# WV 451741 (47-049-00371) Campbell #2484

Topo



NAD27, WV North  
 N: 396,839.32  
 E: 1,728,842.87  
 Lat: 39.585652  
 Lon: 80.461922  
 Elev: 1402.14

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SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 P.O. BOX 438  
 BIRCH RIVER, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
 PO Box 280  
 Bridgeport, WV 26330  
 03/14/2014



**PLUGGING PROGNOSIS**

**Campbell W-2484**

API # 47-049-00371

Weston District, Marion Co., WV

Glover Gap: Quad

Prepared by: **Doug fry**  
8/6/11

Current Status:

Elevation	@ ?	1402'
13"	@ 185'	
10"	@ Currently 1117' originally set at 1431'	
8 1/4"	@ 1983' (Pulled)	
6 5/8"	@ 2157' (6 5/8" x 8 1/4" packer)	
5 3/16"	@ 3296' (5 3/16" x 6 5/8" packer)	
2"	@ 3409' (2" x 5 3/16" packer @ 3303')	Believed to be pulled
TD	@ 3393'	

4 1/2" x 4" Liner run to TD and shut in on 4 3/16" csg.

FW @ 600'                      SW @ 1985', 1998'                      1<sup>st</sup> Salt Sand (1966' - 2013')

Coal @ 1080' - 1086', 1174' - 1182'

Gas Shows @ Big Injun (2471' - 2625'), 4<sup>th</sup> Sand (3341' - 3377')

Oil Shows @ None Reported

**Completion:** 4<sup>th</sup> Sand shot w/ 15 qts nitro glycerin

- 1.) Notify State Inspector, **Bill Hatfield 304-767-1828**, 24 hrs prior to commencing operations.
- 2.) TIH w/ tbg @ 3341'; Set 100' C1A Cement Plug @ 3341' to 3241'. (4<sup>th</sup> Sand Gas Show, 5 3/16" csg st.)
- 3.) TOOH w/ tbg, free point 5 3/16", cut 5 3/16" csg @ free point, TOOH w/ 5 3/16" csg.
- 4.) Set a 100' C1A cement plug 50' in/out of cut. Perf all Sw, Fw, Coal, and Gas shows below 5 3/16" csg cut. Do not omit any plugs.
- 5.) TOOH w/ tbg @ 3241'; Gel Hole @ 3241' to 2471'.
- 6.) TOOH w/ tbg @ 2471'; Set 100' C1A Cement Plug @ 2471' to 2371'. (Big Injun Gas Show)
- 7.) TOOH w/ tbg @ 2371'; Gel Hole @ 2371' to 2207'.
- 8.) TOOH w/ tbg @ 2207'; Set 100' C1A Cement Plug @ 2207' to 2107'. (6 5/8" csg st)
- 9.) TOOH w/ tbg, free point 6 5/8", cut 6 5/8" csg @ free point, TOOH w/ 6 5/8" csg.
- 10.) Set a 100' C1A cement plug 50' in/out of cut. Perf all Sw, Fw, Coal, and Gas shows below 6 5/8" csg cut. Do not omit any plugs.
- 11.) TIH w/ tbg @ 2107'; Gel Hole @ 2107' to 2033'.
- 12.) TOOH w/ tbg @ 2033'; Set 167' C1A Cement Plug @ 2033' to 1866'. (8 1/4" csg st, 1<sup>st</sup> Salt Sand)
- 13.) TOOH w/ tbg, free point 8 1/4", cut 8 1/4" csg @ free point, TOOH w/ 8 1/4" csg.
- 14.) Set a 100' C1A cement plug 50' in/out of cut. Perf all Sw, Fw, Coal, and Gas shows below 8 1/4" csg cut. Do not omit any plugs.
- 15.) TIH w/ tbg @ 1866'; Gel Hole @ 1866' to 1481'.
- 16.) TOOH w/ tbg @ 1481'; Set 100' C1A Cement Plug @ 1481' to 1381'. (Original 10" csg st.)
- 17.) TOOH w/ tbg @ 1381'; Gel Hole @ 1381' to 1232'
- 18.) TOOH w/ tbg @ 1232'; Set 202' C1A Cement Plug @ 1232' to 1030'. (2 Coal Shows, 10" csg st. after pipe was pulled)
- 19.) TOOH w/ tbg, free point 10", cut 10" csg @ free point, TOOH w/ 10" csg.
- 20.) Set a 100' C1A cement plug 50' in/out of cut. Perf all Sw, Fw, Coal, and Gas shows below 10" csg cut. Do not omit any plugs.
- 21.) TIH w/ tbg @ 1030'; Gel Hole @ 1030' to 650'
- 22.) TOOH w/ tbg @ 650'; Set 100' C1A Cement Plug @ 650' to 550'. (Fresh Water)
- 23.) TOOH w/ tbg @ 550'; Gel Hole @ 550' to 235'
- 24.) TOOH w/ tbg @ 235'; Set 235' C1A Cement Plug @ 235' to Surface. (13" csg st)
- 25.) Top off as needed

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- 26.) Set Monument to WV-DEP Specifications
- 27.) Reclaim Location & Road to WV-DEP Specifications

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WELL 2484 - HASTINGS

1990 14 day R.P.  
65#

RIG - SERVICE	\$ 5000
RIG SWAB-BAIL 10 days	5000
DOZER	1200
TUBING 3400' 2" USED 1/FT	3400
TRUCKING (TBG)	400
PKR - TBG HD	1000
	<u>\$ 16,000</u>

Jul 1992 1 month SE =  
72 #  
OVERNIGHT SE 40#  
87' of fluid =  
15 gallons in 2"

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



WELL HAS NOT PRODUCED SINCE LATE '93

700 MCFM TOP RATE DURING LAST 2 YRS PRODUCING

Hole in 5" CASING AT ~ 2960' ? NOTED ON BAILING REPORT 6-21-95  
SWABBED 2280 gals (54 BBLs) NO GAS AFTER BAILING

- 13" @ 186'
- 10" @ 1117'
- 6 7/8" @ 2157'
- 5 1/2" @ 3296'

PRODUCING FROM 4<sup>TH</sup> SAND 3359-3388'

TUBING 3409' (NOT BELIEVED TO BE IN THE WELL NOW)

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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: 47-049-00371 WELL NO.: WV 451741 (Campbell #2484)

FARM NAME: Campbell

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Glover Gap 7.5'

SURFACE OWNER: Steven Newbraugh

ROYALTY OWNER: Jesse L. Straight et. al.

UTM GPS NORTHING: 4,381,909

UTM GPS EASTING: 546,207 GPS ELEVATION: 427 m ( 1402 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.

Ben R. Saylor  
Signature

P.S. Zupre  
Title

7-31-13  
Date

Received  
FEB 24 2014  
Office of Oil and Gas  
Dept. of Environmental Protection

03/14/2014

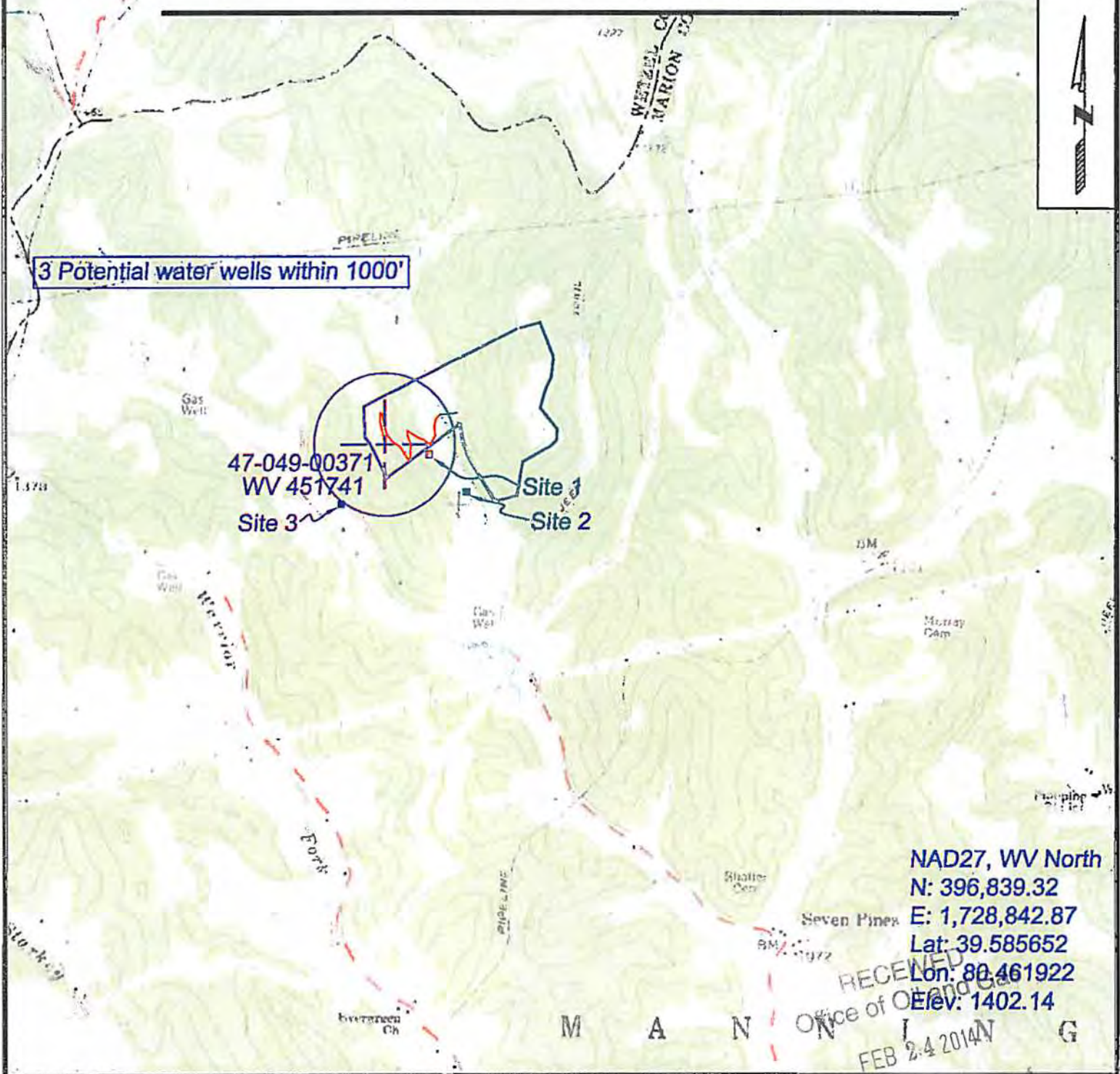


Topo Quad: Glover Gap Scale: 1" = 2000'  
 County: Marion Date: July 30, 2013  
 District: Mannington Project No: 74-18-00-08

Water

# WV 451741 (47-049-00371) Campbell #2484

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Since 1988

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Stacey O. Brown, PS  
Kenneth J. Plum, PS

Ben R. Singleton, PS  
Dwayne A. Hall, PS, SU  
Damon L. Wilkewitz, PS  
William G. Yetzer, PS  
Licensed in WV, CO and UT  
Randy Coots, RPF

### WATER SAMPLE DATA SHEET

**CLIENT:** EOT PRODUCTION COMPANY INC.  
**LEASE NAME AND WELL No.** Campbell 2484 - WV 451741 (47-049-00371)

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 649' +/- Owner: Denis R. Hayes  
Address: 203 Soap Creek Rd. Mannington, WV 26582  
Comments:

Phone no. 304-986-3560

Site: 2 Spacing: 1346' +/- Owner: Nicholas Lalli  
Address: 187 Soap Creek Rd. Mannington, WV 26582  
Comments:

Phone no. 304-986-2886

Site: 3 Spacing: 1033' +/- Owner: \_\_\_\_\_  
Address: \_\_\_\_\_  
Comments:

Phone no. \_\_\_\_\_

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Final Water  
FEB 24 2014

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