



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

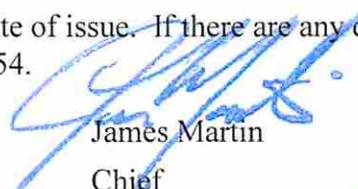
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4102563, 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: 1 47-0072-01-01
Farm Name: CASTO, P. K.
API Well Number: 47-4102563
Permit Type: Plugging
Date Issued: 03/16/2015

Promoting a healthy environment.

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.

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

Date: January 28, 2015
Operator's Well
Well No. 149681 (P. K. Casto #1)
API Well No.: 47 041 - 02563

**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: 1286 ft. Watershed: Hackers Creek
Location: Hackers Creek County: Lewis Quadrangle: Berlin
District: _____

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

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

8) Oil & Gas Barry Stollings
Name: 28 Conifer Drive
Address: 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 2-17-15

PLUGGING PROGNOSIS - Weston

Casto, P.K. #1 (149681)

Lewis Co., West Virginia

API # 47-041-02563

Quad: Hackers Creek

BY: Craig Duckworth

DATE: 12/5/14

CURRENT STATUS:

8 5/8" csg @ 635' (cem 170 cu. ft.)

4 1/2" csg @ 2754' (cem 200 cu. ft.)

TD @ 2754' (Original T.D. 4554' plugged back in 1983)

Fresh Water @ 870'

Salt Water @ None reported

1st Salt Sand @ 1300'

Coal @ 160'-165'

Gas Shows @ 1735'

Oil Shows @ 1735'

Stimulation: 5th Sand - Bayard @ 2536' - 2675'

Elevation: 1260'

1. Notify State Inspector, Barry Stollings 304-552-1194, 24 hrs. Prior to commencing operations.
2. Check TD
3. TIH w/ tbg @ 2754'; Set 274' C1A Cement Plug @ 2754' to 2480' (Gas Shows @ 5th Sand 2675'-2536')
4. TOOH w/ tbg @ 2480'; gel hole @ 2480' to 1735'
5. TOOH w/ tbg @ 1735'; Set 100' C1A Cement Plug @ 1735' to 1635'(Gas & Oil Show @ 1735')
6. TOOH w/ tbg @ 1635'; gel hole @ 1635' to 1350'
7. TOOH w/ tbg, Free Point 4 1/2", cut 4 1/2" @ free point, TOOH w/ 4 1/2" csg
8. TIH w/ tbg @ 1350'; Set 150' C1A Cement Plug @ 1350' to 1200' (4 1/2" csg cut & Salt Sand @ 1300' & elevation @ 1260')
9. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 4 1/2" cut.
Do not omit any plugs
10. TOOH w/ tbg @ 1200'; gel hole @ 1200' to 920'
11. TOOH w/ tbg @ 920'; Set 100' C1A Cement Plug @ 920' to 820'(FW @ 870')
12. TOOH w/ tbg @ 820'; gel hole @ 820' to 685'
13. TOOH w/ tbg @ 685'; Set 100' C1A Cement Plug @ 685' to 585' (8 5/8" csg seat)
14. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 5/8" cut.
Do not omit any plugs
15. TOOH w/ tbg @ 585'; gel hole @ 585' to 200'.
16. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface (Coal @ 165'-160')
17. Top off as needed
18. Set Monument to WV-DEP Specifications
19. Reclaim Location & Road to WV-DEP Specifications

149681

4102563P



IV-35
(Rev 8-83)

RECEIVED
NOV 17 1983

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 21, 1983
Operator's
Well No. 47-0072-01-01
Farm P. K. Casto #1
API No. 47-041-2563-PP-
FRAC

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1260' Watershed Buckhannon River
District: Hackers Creek County Lewis Quadrangle Berlin

COMPANY Ensource Inc.
ADDRESS P. O. Drawer 1738, Clarksburg, WV 26301
DESIGNATED AGENT Michael W. Nugen
ADDRESS Same
SURFACE OWNER P. K. Casto
ADDRESS P. O. Box 289, Buckhannon, WV 26201
MINERAL RIGHTS OWNER Same
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Robert Bates
109 Minnich St.
ADDRESS Weston, WV 26452

PERMIT ISSUED September 29, 1983
DRILLING COMMENCED 10/06/83
DRILLING COMPLETED 10/17/83

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	635	635	170
7			
5 1/2			
4 1/2	2750	2750	200
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Bayard & Fifth Depth 1300 feet
Depth of completed well 3357 feet Rotary X / Cable Tools
Water strata depth: Fresh 100 feet; Salt 1300 feet
Coal seam depths: 160-165 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2899-3299 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Ebl/d
Final open flow 450 Mcf/d Final open flow Ebl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)
Second producing formation 5th Sand - Bayard Pay zone depth 2536-2675 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Ebl/d
Final open flow 450 Mcf/d Oil: Final open flow Ebl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

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JAN 30 2015

WV Department of
Environmental Protection

LCV 2563 PP-Frac

4102563P

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

- 1) Foam frac with 634 MSCF N₂ 27,000# 20/40 sand.
- 2) Gel-Water frac with 500 gal acid, 500 bbl H₂O 30,000# 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
SEE ATTACHED ORIGINAL COMPLETION REPORT					

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(Attach separate sheets as necessary)

Ensource Inc.
Well Operator,
By: Michael W. Auger
Date: October 21, 1983

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

4102563P

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 Date: January 19, 19 79
 FORM IV-35 (Obverse)
 WELL OPERATOR'S REPORT
 OF
 DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE
 Operator's Well No. _____
 API Well No. 17-041-2563
 State County Part: _____

Well Name: P.K. Casto No. 1 Acres: 78
 WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
 (If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___)
 LOCATION: Elevation: 1260' Watershed: Buckhannon Run
 District: Hackers Creek County: Lewis Quadrangle: Berlin 7 1/2

WELL OPERATOR NRM Petroleum Corporation DESIGNATED AGENT Mr. Rick Hopkins, V. Pres.
 Address Post Office Box 816 Address P.O. Box 816
Buckhannon, West Virginia 26201 Buckhannon, W. Va. 26201

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
 Plug off old formation ___ / Perforate new formation ___
 Other physical change in well (specify) _____

PERMIT ISSUED ON 1-14-79, 19 ____ OIL & GAS INSPECTOR FOR THIS WORK:
 (IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert Bates
 Address 109 Minnich St.
Weston, W. Va.

GEOLOGICAL TARGET FORMATION: Benson Depth 4461-4475 feet
 Depth of completed well, _____ feet Rotary X / Cable Tools ___
 Water strata depth: Fresh, 870 feet; salt, _____ feet.
 Coal seam depths: 160-165 Is coal being mined in the area? ___
 Work was commenced 1-14, 19 79, and completed 1-19, 19 79

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CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	Minds
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								
Fresh water								
Coal								Sizes
Intermediate	<u>8 5/8</u>			<u>X</u>		<u>635'</u>	<u>635'</u>	<u>170 sbs.</u>
Production	<u>4 1/2"</u>			<u>X</u>			<u>4556</u>	<u>270</u>
Tubing								
Liners								Perforations:
								Top Bottom

WV Department of Environmental Protection

OPEN FLOW DATA Both formations: 169 Mcf per day 3729-45,5
 Producing formation Balltown Pay zone depth 3754-59,5 feet
 Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ bbl/d
 Final open flow, _____ Mcf/d Final open flow, _____ bbl/d
 Time of open flow between initial and final tests, _____ hours
 Static rock pressure, _____ psig (surface measurement) after _____ hours shut in.
 (If applicable due to multiple completion--)
 Second producing formation Benson Pay zone depth 4464-74,12 feet
 Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ bbl/d
 Final open flow, 169 Mcf/d Final open flow, _____ bbl/d
 Time of open flow between initial and final tests, _____ hours
 Static rock pressure, 1640 psig (surface measurement) after _____ hours shut in.

LCU 2563 PP-FAC

4102563P

ORM IV-35
Reverse)

08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Benson Frac with 500 gal. HCl, 10,000# 80/100, 30,000# 20/40 in 525 bbl. water
BD 1800#, ATP 1987#, ISI 1400#, AIR 36.7 BPM

Balltown Frac with 500 gal. HCl, 30,000# 20/40 in 460 bbl. water
BD 2100#, ATP 1666#, ISI 1000#, AIR 35.9 BPM

ELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Ground Level			0	10	
Sand & Shale			60	160	
Coal			160	165	
Sand & Shale			165	1674	Hole wet @ 870' 1" stream
Little Lime			1674	1685	
Sand & Shale			1685	1725	
Big Lime			1725	1907	Show oil and gas 1735'
Big Injun			1907	1986	
Sandy Shale			1986	2028	
Sand & Shale			2028	2075	
Gantz			2075	2200	
Sand & Shale			2200	2430	Chk. gas 2314' No show
Sandy Shale			2430	2450	
Fourth Sand			2430	2450	
Sandy Shale			2450	2530	
Fifth Sand			2530	2570	
Shale			2570	2610	
Bayard			2610	2630	
Shale			2630	2760	
Sandy Shale			2760	2780	
Shale			2780	2870	
Sandy Shale			2870	3550	Chk. gas 3216' Odor
Balltown			3550	3820	
Sandy Shale			3820	4440	Chk. gas 4334' No show
Shale			4440	4480	Chk. gas 4613' Odor
Benson			4480	4475	
Sand & Shale			4475		Chk. gas 4640' Odor
TOTAL DEPTH				4589	

Well logged by Allegheny Nuclear Surveys Gamma-Density-Temperature-Induction
Initial open flow - could not gauge due to water in the hole

(Attach separate sheets to complete as necessary.)

NRM Petroleum Corporation
Well Operator

By Mr. Rickard Hopkins
Its Vice President

NOTE: Regulation 3.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

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Office of Oil and Gas

JAN 30 2015

WV Department of
Environmental Protection

41 02563A

WW-4-A
Revised 6/07

1) Date: January 28, 2015
2) Operator's Well Number
149681 (P. K. Casto #1)
3) API Well No.: 47 041 - 02563
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 Robert F. Syrews
Address 54 Wynding Way Road
Weston, WV 26452
(b) Name Timothy and Bridgette Syrews
Address 451 Laurel Lick Road
Weston, WV 26452
(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 Freda Simmons Heirs
Address 1098 Teeter Road
Buckhannon, WV 26201
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:

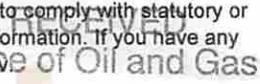
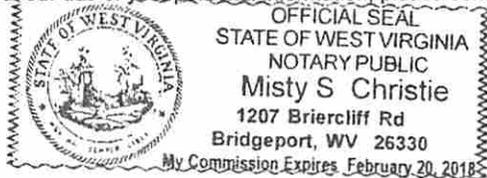
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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.



JAN 30 2015

WV Department of Environmental Protection

4102563P

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01/29/2015
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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage		

Sent To: Timothy and Bridgette Syreus
 Street, Apt. or PO Box: 451 Laurel Lick Road ✓
 City, State: Weston, WV 26452
 #149681

PS Form 3811, August 2006 See Reverse for Instructions

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WV Department of
Environmental Protection

Timothy and Bridgette Syreus
451 Laurel Lick Road
Weston, WV 26452

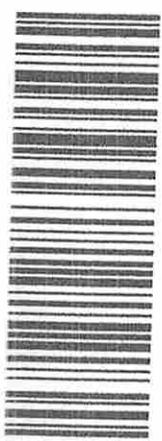
2. Article Number (Transfer from service label)
7013 0600 0001 5316 1563
PS Form 3811, July 2013 Domestic Return Receipt

3. Service Type
 Certified Mail®
 Registered
 Return Receipt for Merchandise
 Insured Mail
 Collect on Delivery

4. Restricted Delivery? (Extra Fee)
 Yes
 No

FIRST-CLASS MAIL
 neopost®
 01/29/2015
US POSTAGE
\$07.61
 ZIP 263330
 041L1022889

4102563P



7014 2120 0003 6756 9850
 7014 2120 0003 6756 9850

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Return Receipt Fee (Endorsement Required)			
Restricted Delivery Fee (Endorsement Required)			
Total P _c			

Vicki R.

Sent To
 Street & or PO Box
 City, State
 Robert F. Syrews
 54 Wynding Way Road
 Weston, WV 26452
 PS Form 3800, July 2013
 See Reverse for Instructions

WV #149681

Weston, WV 26452

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JAN 30 2015

WV Department of
 Environmental Protection

1. Article Addressed to: Robert F. Syrews
 54 Wynding Way Road
 Weston, WV 26452

2. Article Number (Transfer from service label)
 7014 2120 0003 6756 9850
 PS Form 3811, July 2013
 Domestic Return Receipt

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

4. Restricted Delivery? (Extra Fee)
 Yes
 No

If YES, enter delivery address below:
 No

41025639

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ZIP 26330
041L10228892



7014 0150 0001 0654 7573
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For delivery information visit our website at www.usps.com

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

Sent To: Freda Simmons Heirs
 1098 Teeter Road
 Buckhannon, WV 26201

PS Form 3800, August 2006 See Reverse for Instructions

Vicki R.

#149641

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JAN 30 2015

WV Department of
Environmental Protection

PS Form 3811, July 2013
 (Transfer from service label)
 2. Article Number
 7014 0150 0001 0654 7573

3. Service Type
 Certified Mail[®]
 Priority Mail Express[™]
 Registered
 Insured Mail

4. Restricted Delivery? (Extra Fee)
 Yes
 No

Freda Simmons Heirs
 1098 Teeter Road
 Buckhannon, WV 26201

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: Berlin
Elevation: 1286 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.? 10ml 20AL.

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 *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

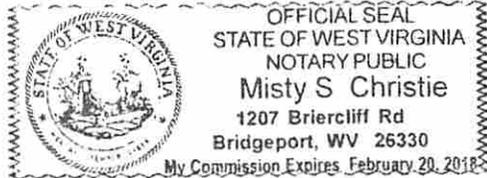
Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 29th day of January, 2014-2015

Misty S. Christie Notary Public

My Commission Expires 2/20/18

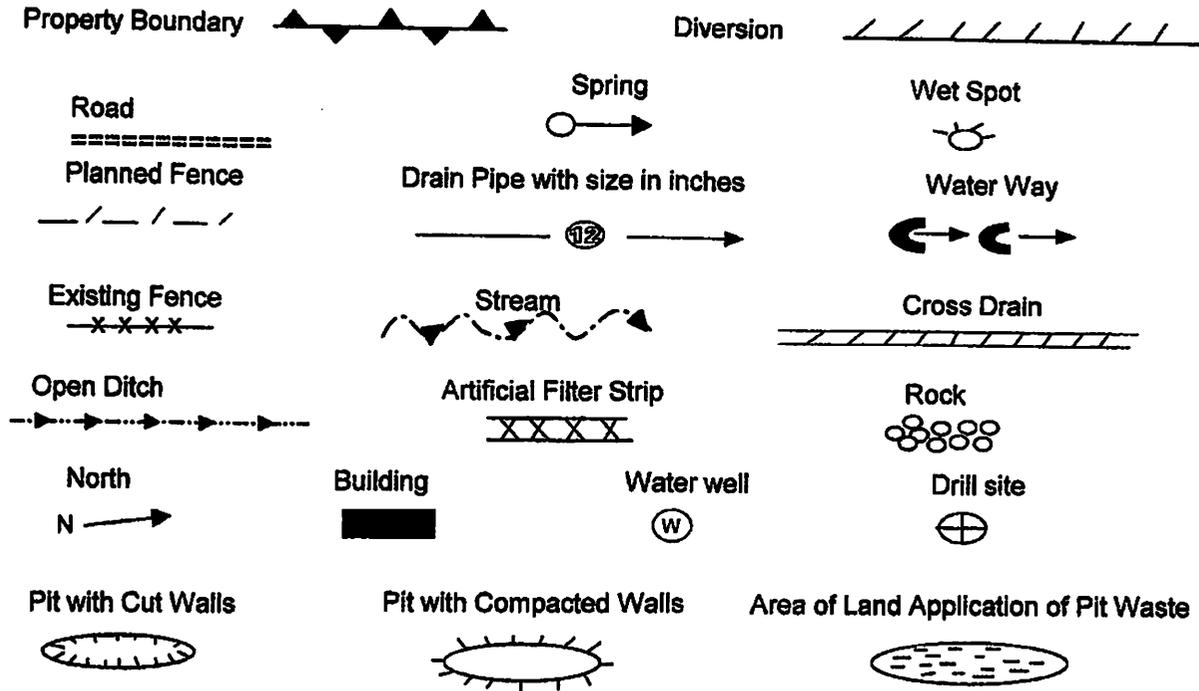
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OPERATOR'S WELL NO.:

149681 (P. K. Casto #1)

LEGEND



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		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	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: Benny A. Stupp

Comments: _____

Title: inspector Date: 2-17-15

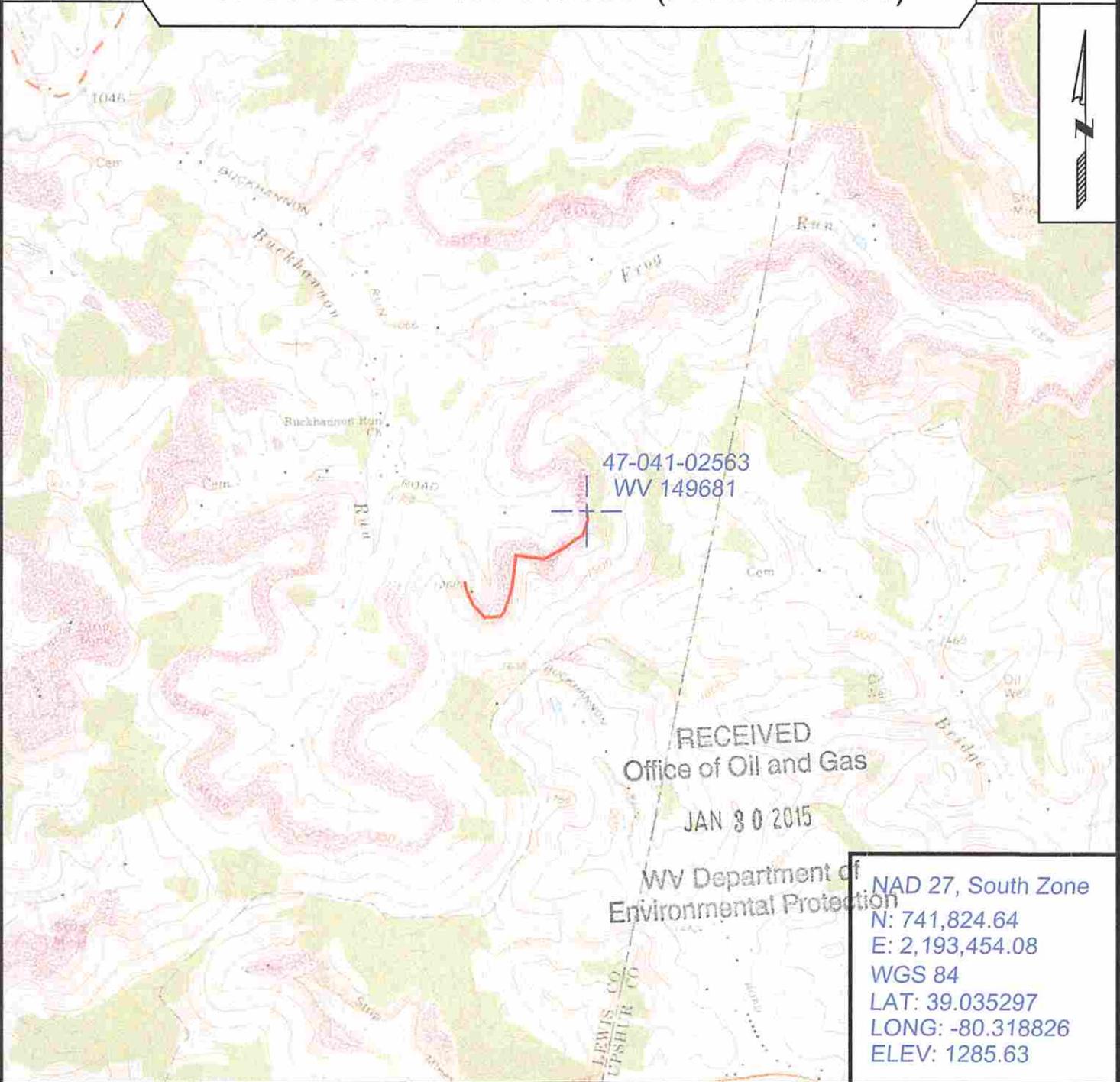
Field Reviewed? Yes No

4102563P

Topo Quad:	Berlin 7.5'	Scale:	1" = 2000'
County:	Lewis	Date:	November 17, 2014
District:	Hackers Creek	Project No:	73-12-00-08

47-014-02563 WV 149681 (P. K. Casto #1)

Topo



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

WW-7
8-30-06



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

API: 47-041-02563 WELL NO.: WV 149681 (P. K. Casto #1)

FARM NAME: P. K. Casto

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Lewis DISTRICT: Hackers Creek

QUADRANGLE: Berlin 7.5'

SURFACE OWNER: Robert F. Syrews and Timothy & Bridgett Syrews

ROYALTY OWNER: Mable Virginia Casto, et al.

UTM GPS NORTHING: 4320914

UTM GPS EASTING: 558955 GPS ELEVATION: 391 m (1286 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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential
- Letter size copy of the topography map showing the well location.**

RECEIVED
Office of Oil and Gas

JAN 30 2015

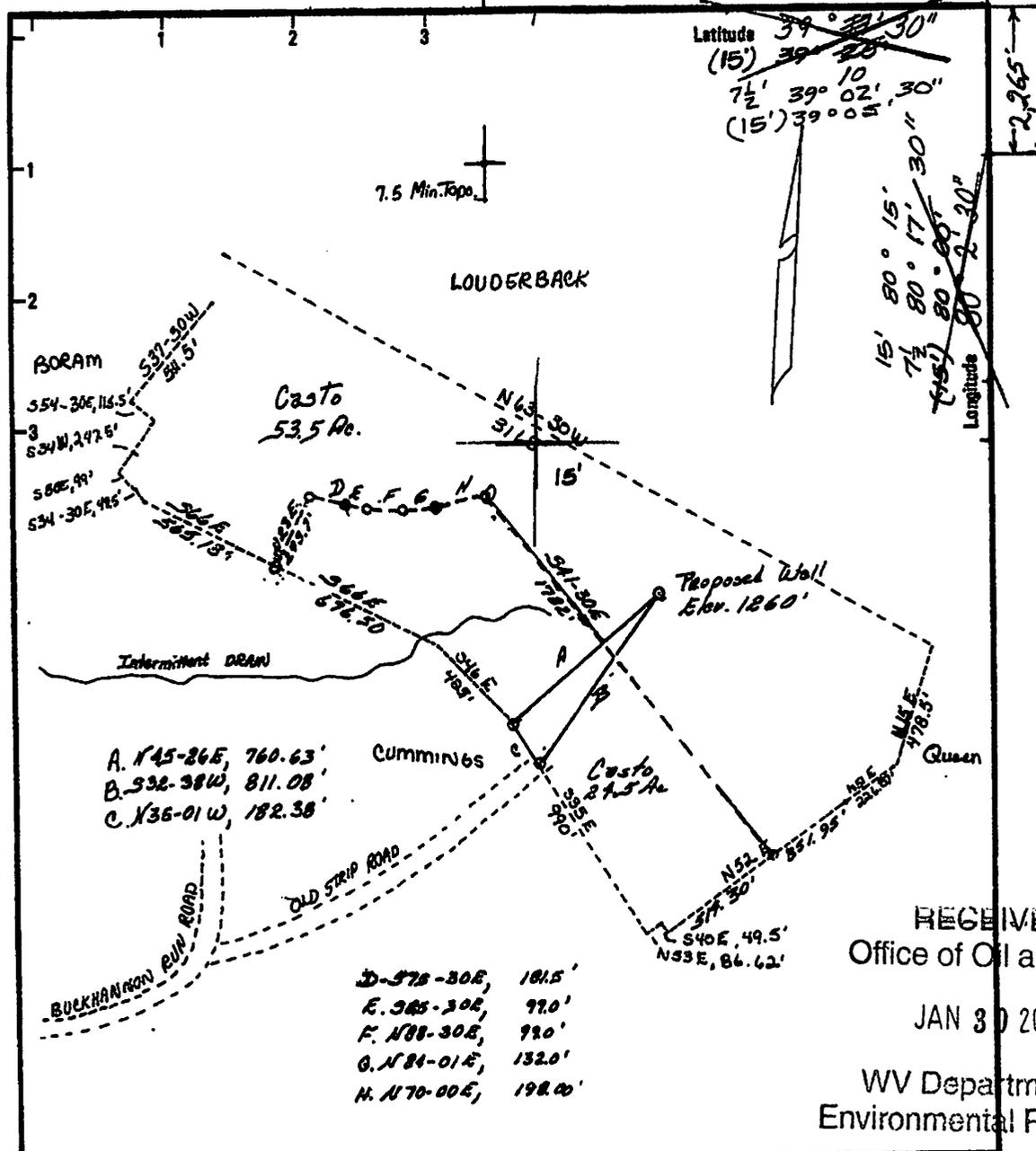
WV Department of
Environmental Protection

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.

Shay Brown
Signature

PS# 2180
Title

12/10/14
Date



A. N45-26E, 760.63'
 B. S32-38W, 811.08'
 C. N35-01W, 182.38'

D. S78-30E, 181.5'
 E. S85-30E, 97.0'
 F. N88-30E, 92.0'
 G. N84-01E, 132.0'
 H. N70-00E, 198.00'

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 Office of Oil and Gas
 JAN 30 2015
 WV Department of
 Environmental Protection

New Location <input checked="" type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/> Fracture <input checked="" type="checkbox"/>	Minimum Error of Closure <u>1" 2.00'</u> Source of Elevation <u>U.S.G.S. B.M. Stone coal. 1161'</u> "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia." <i>Wayne D. Norton</i>
---	---

Company Ensource Inc.
 Address P.O. Box 1738 - Clark County, W.Va. 26301
 Farm Casto
 Tract 1 Acres 53.5 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1260'
 Quadrangle Berlin 2 1/2, WESTON 106'
 County Lewis District Hackers Creek
 Engineer Wayne D. Norton
 Engineer's Registration No. 624
 File No. _____ Drawing No. _____
 Date Nov. 6, 1978 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 47-041-2563-PP-Frac.

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

Lewis 2563 frac

4102563P



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. P. K. Casto #1 - 47-041-02563 - WV 149681

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

**Please note that the following information is subject to change upon field inspection.*

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 932' +/- Owner: Norris M. & Rebecca Sue Friend

Address: PO Box 2113, Buckhannon, WV 26201 Phone No. _____

Comments:

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JAN 30 2015

WV Department of
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

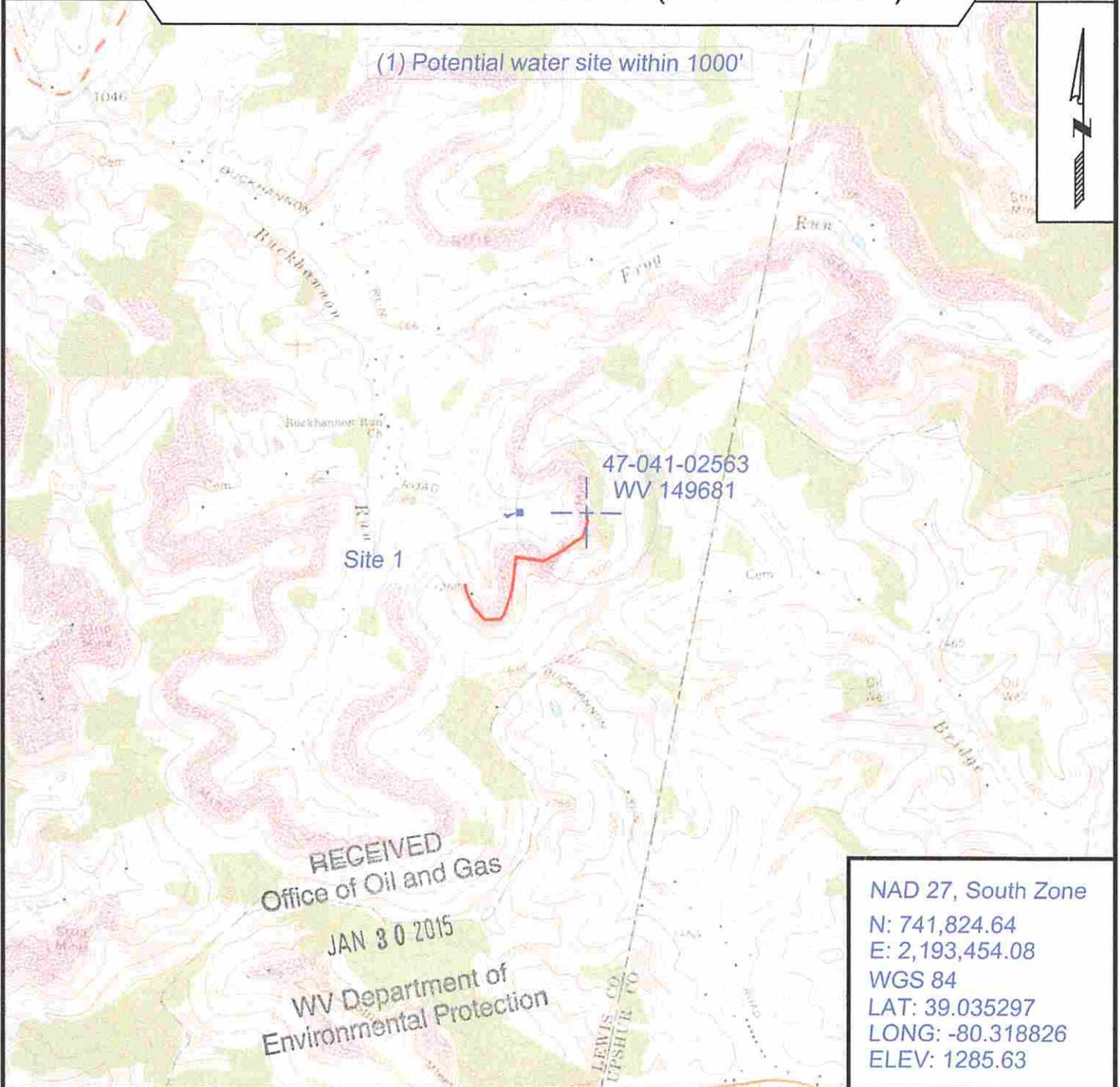
4102563P

Topo Quad:	Berlin 7.5'	Scale:	1" = 2000'
County:	Lewis	Date:	November 17, 2014
District:	Hackers Creek	Project No:	73-12-00-08

Water

47-014-02563 WV 149681 (P. K. Casto #1)

Topo



NAD 27, South Zone
 N: 741,824.64
 E: 2,193,454.08
 WGS 84
 LAT: 39.035297
 LONG: -80.318826
 ELEV: 1285.63



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