



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

August 18, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1702065, 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: 4715
Farm Name: SNIDER
API Well Number: 47-1702065
Permit Type: Plugging
Date Issued: 08/18/2015

Promoting a healthy environment.

08/21/2015

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.

1702065P

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

Date: October 6, 2014
Operator's Well
Well No. 604715 (Snider #4715)
API Well No.: 47 017 - 02065

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CK 18320
100⁰⁰

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: 1042 ft. Watershed: Straight Fork
Location: South West County: Doddridge Quadrangle: Oxford
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 Douglas Newlon
Name: 4060 Dutchman Road
Address: Macfarlan, WV 26148
- 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.

gwm ok

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 _____

08/21/2015

PLUGGING PROGNOSIS - Weston

Snider, F.M. # 4715 (604715)

Doddridge Co., West Virginia

API # 47-017-02065

District: Southwest

BY: Craig Duckworth

DATE: 9/25/14

CURRENT STATUS:

- 10" csg @ 190'
- 8 1/4" csg @ 885'
- 6 5/8" csg @ 1780' (Packer @ 1603')

TD @ 1863'

Fresh Water @ 940' Salt Water @ None reported
 1st Salt Sand @ 1150' Coal @ None reported
 Gas Shows @ 1845' Big Injun, 1612' 3rd Salt Sand, 1215' 1st Salt Sand
 Oil Shows @ None reported
 Stimulation: None reported
 Elevation: ???

1. Notify State Inspector, Douglas Newlon 304-932 8049, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1863'; Set 133' CIA Cement Plug @ 1863' to 1730' (Gas Show 1845' Big Injun
3. TOOH w/ tbg, Free Point 6 5/8", cut 6 5/8" @ free point, TOOH w/ 6 5/8" csg
4. TIH w/ tbg @ 1730'; Set 200' CIA Cement Plug @ 1730' to 1530' (6 5/8" csg @ 1780' & Packer @ 1603')
5. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
6. TOOH w/ tbg @ 1530'; gel hole @ 1530' to 1215'
7. TOOH w/ tbg @ 1215'; Set 200' CIA Cement Plug @ 1215' to 1015' (Gas @ 1215' & Salt Sand @ *Elevation Plug* 1150')
8. TOOH w/ tbg @ 1015'; gel hole @ 1015' to 940'.
9. TOOH w/ tbg, Free Point 8 1/4", cut 8 1/4" @ free point, TOOH w/ 8 1/4" csg
10. TIH w/ tbg @ 940'; Set 140' CIA Cement Plug @ 940' to 800' (Water @ 940' & 8 1/4" csg seat @ 885')
11. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs
12. TOOH w/ tbg @ 800'; gel hole @ 800' to 240'.
13. TOOH w/ tbg @ 240'; Set 240' CIA Cement Plug @ 240' to 0' (10" csg @ 190')
14. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 10" cut. Do not omit any plugs
15. Top off as needed
16. Set Monument to WV-DEP Specifications
17. Reclaim Location & Road to WV-DEP Specifications

*DCN
12-26-2014*

1702065P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. 41-017-02065

604715

Oil or Gas Well "GAS"
(ENR)

Company Pittsburgh & West Va Gas Company.
 Address Clarksburg, West Va.
 Farm F. H. Snider Acres _____
 Location (waters) Falbrook 11/1. 3-4
 Well No. 4715 Elev. _____
 District Southwest County Doddridge
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced June 11, 1919
 Drilling completed July 8th, 1919
 Date Shot _____ From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 _____ sloms _____ Cu. Ft.
 Rock Pressure _____ lbs _____ hrs.
 Oil _____ bbls, 1st 24 hrs.
 Fresh water _____ feet
 Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
12			Anchor
10	190'	190'	Size of 8-1/4" X
8 1/2	665'	665'	6-5/8"
6 1/2	1720'	1720'	Depth set 1603'
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES
 _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	Yellow	Open	0	20			
Sand	White	Hard	20	100			
Red Rock	Red	Soft	100	200			
Lime	White	Hard	200	225			
Red Rock	Red	Soft	225	325			
Lime	White	Hard	325	340			
Slate	"	Soft	340	490			
Lime	"	Hard	490	530			
Red Rock	Red	Soft	530	600			
Sand	White	Hard	600	640			
Red Rock	Red	Soft	640	705			
Sand	Dark	Hard	705	725			
Red Rock	Red	Soft	725	865			
Lime	Light	Hard	865	875			
Slate	Black	Soft	875	880			
Sand	Light	Hard	880	950			
ite	"	Soft	950	1030	Water	940'	1 B.
Sand	"	Hard	1030	1125			
Slate	"	Soft	1125	1150			
1st. Salt Sand	"	Hard	1150	1225	Gas	1215'	
Slate	Dark	Soft	1225	1245			
Sand	White	Hard	1245	1265			
Slate	"	Soft	1265	1445			
2nd. Salt Sand	"	Hard	1445	1515			
Slate	Dark	Soft	1515	1595			
3rd. Salt Sand	Light	Hard	1595	1640	Gas	1612-1622'	
Slate	Dark	Soft	1640	1690			
Maron Sand	"	Hard	1690	1745			
Slate	White	Soft	1745	1755			
Big Lime	"	Hard	1755	1832			
Big Inj. Sand	"	Hard	1832		Gas	1845'	
Total Depth				1863			

(Over)

08/21/2015

1702065P

WW-4-A
Revised 6/07

1) Date: October 6, 2014
2) Operator's Well Number
604715 (Snider #4715)
3) API Well No.: 47 017 - 02065
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 Delbert and Barbara Osbourne
Address Rt. 1, Box 180
West Union, WV 26456
(b) Name Arden Cogar, Sr.
Address P. O. Box 272
Webster Springs, WV 26288
(c) Name _____
Address _____
6) Inspector Douglas Newlon
Address 4060 Dutchman Road
Macfarlan, WV 26148
Telephone (304) 932-8049

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Lawrence C. Buckner
825-C Merriman Ave., #246
Address Ashville, NC 28804-2404
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.

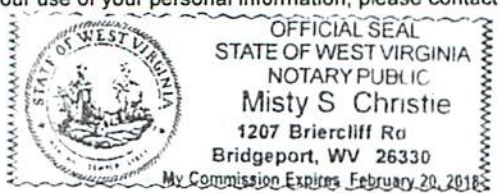
Received
Office of Oil & Gas

OCT 09 2014

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 6th day of October, 2014
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.



08/21/2015

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: Straight Fork Quadrangle: Oxford
Elevation: 1042 ft. County: Doddridge District: South West

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 20 ac.

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

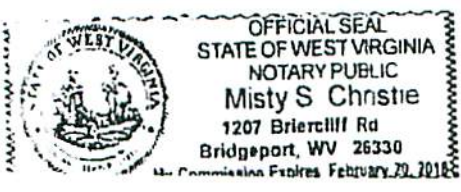
*DLW
12-16-2014*

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? _____

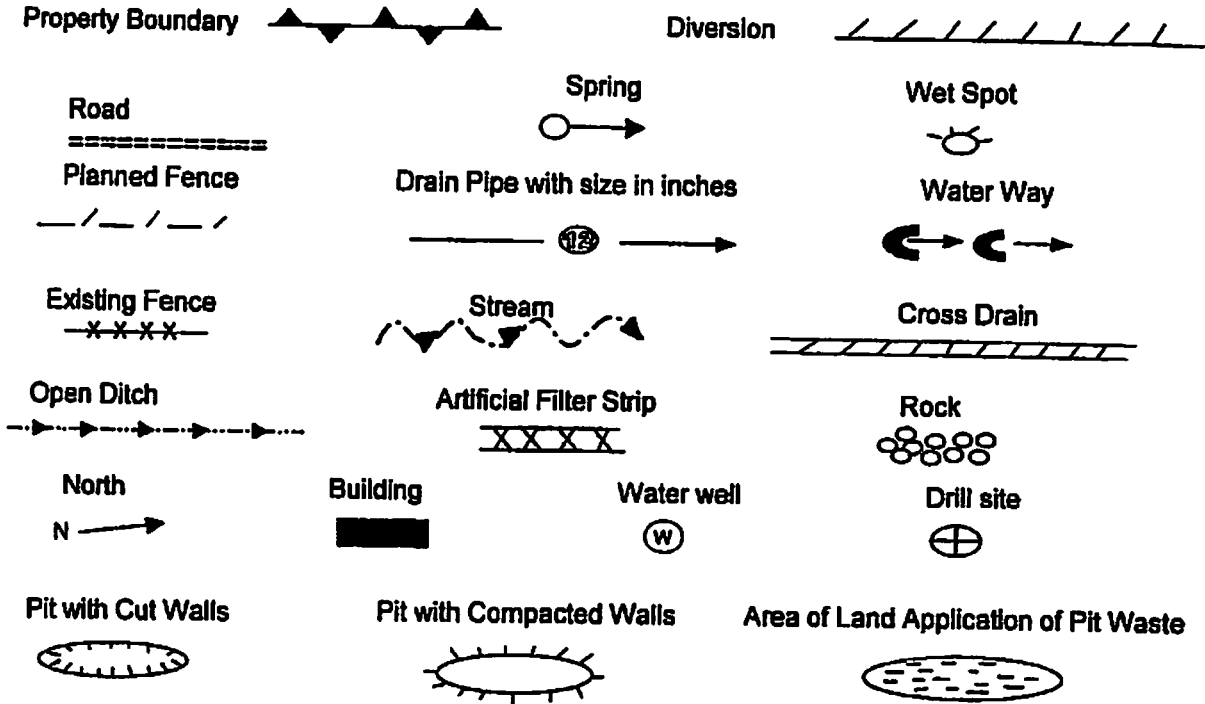
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of 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 6th day of October, 2014
Misty S. Christie Notary Public
My Commission Expires 2/20/18



OPERATOR'S WELL NO.:
604715 (Slider #4715)

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: Douglas Nembro

Comments: install ERS presed & mulch any disturbed areas

Title: Oil & Gas Inspector

Date: 12-16-2014

Field Reviewed? Yes No

1702065P

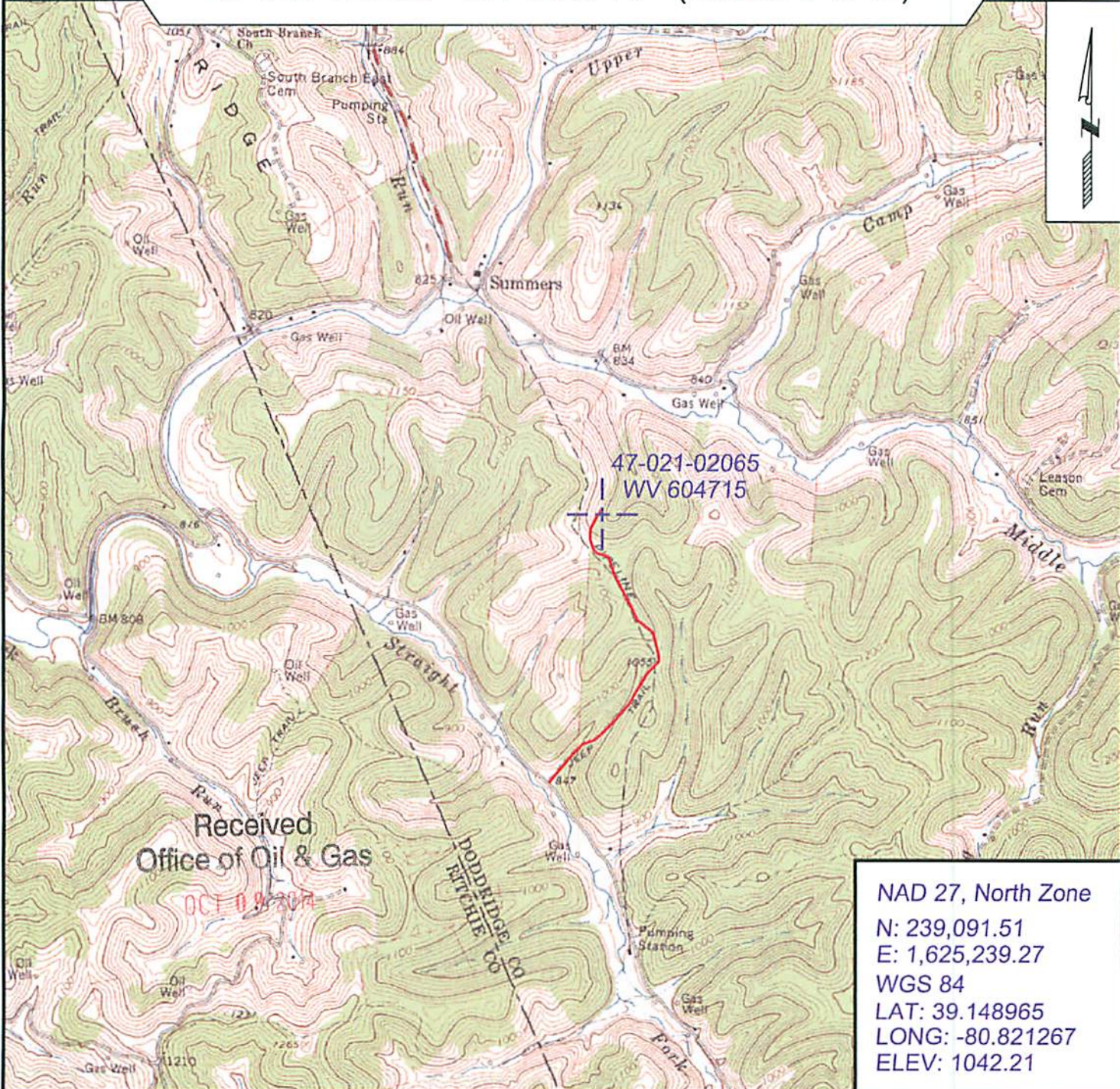
Topo Quad: Oxford 7.5' Scale: 1" = 2000'

County: Doddridge Date: September 29, 2014

District: South West Project No: 67-30-00-08

47-017-02065 WV 604715 (Snider #4715)

Topo



47-021-02065
WV 604715

Received
Office of Oil & Gas
OCT 09 2014

NAD 27, North Zone
N: 239,091.51
E: 1,625,239.27
WGS 84
LAT: 39.148965
LONG: -80.821267
ELEV: 1042.21



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

08/21/2015

1702065A

WW-7
8-30-06



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

API: 47-017-02065 WELL NO.: WV 604715 (Snider #4715)

FARM NAME: Snider

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Doddridge DISTRICT: South West ↗

QUADRANGLE: Oxford 7.5' ↙ ↘

SURFACE OWNER: Delbert and Barbara Osborne

ROYALTY OWNER: EQT Production Company, et al

UTM GPS NORTHING: 4333323

UTM GPS EASTING: 515444 GPS ELEVATION: 318 m (1042 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.**

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.

Stacy Osborn
Signature

PS # 2180
Title

9/30/14
Date

Received
Office of Oil & Gas
OCT 09 2014

1702065P



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Snider #4715 - WV 604715 - API No. 47-017-02065

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 604715.

Received
Office of Oil & Gas

OCT 09 2014

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

1702065P

Topo Quad: Oxford 7.5' Scale: 1" = 2000'

County: Doddridge Date: September 29, 2014

District: South West Project No: 67-30-00-08

Water

47-017-02065 WV 604715 (Snider #4715)



No potential water wells within 1000'

47-021-02065
WV 604715

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OCT 29 2014

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