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**west virginia** department of environmental protection

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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](http://www.dep.wv.gov)

March 25, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1702107, 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: 4983

Farm Name: RYMER

**API Well Number: 47-1702107**

**Permit Type: Plugging**

Date Issued: 03/25/2015

**Promoting a healthy environment.**

**03/27/2015**

## 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

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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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1702107A

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

Date: 2-12-15  
Operator's Well  
Well No. 604983 Rymer B-4983  
API Well No.: 47 017 - 02107

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

CK 1907Z  
\$ ~~7000~~ 100<sup>00</sup>

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: 994 Watershed: Camp Run of Middle Fork of Hughes River  
Location: Southwest County: Doddridge Quadrangle: Oxford 7.5'  
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.**

RECEIVED  
Office of Oil and Gas  
FEB 17 2015

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 \_\_\_\_\_

03/27/2015

PLUGGING PROGNOSIS  
R.B.Rymer# 4983 (604983)  
Doddridge Co., West Virginia  
API # 47-017-02107  
District Southwest

WELL RECORD INDICATES THAT  
THIS WELL WAS SHOT IN THE  
BIG INJUN 1773 - 1784.  
THIS IS BELOW THE 6 5/8" CASING POINT.

BY: R. Green  
DATE: 01/28/15

CURRENT STATUS:  
10" csg @ 282'  
8 1/4" csg @ 969'  
6 5/8" csg @ 1695'

JWM  
3/25/15

TD@ 2502'

Fresh Water @ 190'                      Salt Water @ None reported  
1<sup>st</sup> Salt Sand @ 1167'                      Coal @ None reported  
Gas Shows @ 1385' (2<sup>nd</sup> Salt Sand), 1753' (Big Injun Sand), 2368' (Gordon Sand)  
Oil Shows @ None Reported  
Elevation: Not Reported 994'

1. Notify State Inspector, Douglas Newton 304-932-8049, 24 hrs. Prior to commencing operations.
2. TIH W/TBG TO 1770' & GEL HOLE TO 1770'.
3. SET 140' OF CIA CEMENT PLUG TO 1630', (GAS SHOWS & CASINO SEAT.)
4. TIH TAG TOP OF PLUG, ABO CEMENT IF NECESSARY.
5. TOOH WITH TUBING. GEL HOLE TO NEXT PLUG.
6. RIH free point 7" casing, cut 7" casing @ free point. (Est @ 1600') TOOH Csg
7. Set 100' CIA cement plug 50' in/out of cut. Perforate all Salt Sands, freshwater, coal, and oil & gas shows below cut. Do not omit any plugs.
8. TOOH tbg to 1168', Set 250' CIA cement plug 1168' to 919' (8 1/4" casing seat gas shows & 1<sup>st</sup> Salt Sand)
9. TOOH tbg to 919', gel hole to next plug TOOH tbg.
10. RIH free point 8 1/4" casing, cut 8 1/4" casing @ free point. (Est @ 750') TOOH Csg
11. Set 100' CIA cement plug 50' in/out of cut. Perforate all Salt Sands, freshwater, coal, and oil & gas shows below cut. Do not omit any plugs.
12. TOOH tbg to 600', set 100' CIA cement plug 600' to 500' (safety plug).
13. TOOH tbg to 500' gel hole to 350'.
14. TOOH tbg to 350' set CIA cement plug 350' to surface.
15. Erect monument with API#.
16. Reclaim location, road to WV-DEP specifications.

1702107P

04-14

604983  
47-017-02107



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Permit No. \_\_\_\_\_

Oil or Gas Well "GAS"  
(RING)

Company Pittsburgh & West Va Gas Company.  
 Address Clarksburg, West Va.  
 Farm Rosa B. Rymer Acres \_\_\_\_\_  
 Location (waters) Holbrook N/W. A-1  
 Well No. 4983 Elev. \_\_\_\_\_  
 District \_\_\_\_\_ County \_\_\_\_\_  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced June 10th, 1930  
 Drilling completed July 14th, 1930  
 Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer
13			
10	282'	282'	Size of
8 1/4	969'	969'	
6 3/4	1695'	1695'	Depth set
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  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock		Soft	0	35			
Slate	White	"	35	90			
Lims	"	Hard	90	110			
Slate	"	Soft	110	125			
Red Rock	Smk Red	"	125	165			
Sand	White	Soft	165	235	Water	190'	
Slate	"	"	235	320			
Lims	"	Hard	320	440			
Red Rock	Red	Soft	440	460			
Lims	White	Gritty-Hard	460	474			
Red Rock	Red	Soft	474	555			
Lims	White	Hard	555	678			
Red Rock	Red	Soft	678	755			
Lims	White	Hard	755	770			
Slate	"	Soft	770	845			
Little Dunkard	"	Hard	845	905			
Slate	"	Soft	905	959			
Big Dunkard	"	Hard	959	994			
Slate	"	Soft	994	1020			
Gas Sand	"	Hard	1020	1065			
Slate	Dark	Soft	1065	1167			
1st. Salt Sand	White	Hard	1167	1181	Gas	1168-1172'	
Slate	Dark	Soft	1181	1360			
2nd. Salt Sand	White	Hard	1360	1430			
Slate	Dark	Soft	1430	1503			
3rd. Salt Sand	White	Hard	1503	1572			
Slate	Dark	Soft	1572	1623			
Little Lims	White	Hard	1623	1645			
Slate	"	Soft	1645	1650			
Hins Henday Sand	Wh.	Hard	1650	1672			
Slate	White	Soft	1672	1680			
Lims-Big	"	Hard	1680	1737			
Big Injun Sand	"	Hard	1737	1827	Gas	1770-1772'	
Slate & Shells	White	Soft	1827	1945	Gas	1780-1782'	
Soreo Crit	"	Hard	1945	2070			
Slate	Dark	Soft	2070	2361			
Gorden Stray	White	Hard	2361	2370			
Slate	"	Soft	2370	2440			
Pink Rock	Pink	"	2440	2450			

(Over)

RECEIVED  
Office of Oil and Gas  
FEB 17 2015  
WV Department of  
Environmental Protection

03/27/2015

Provided

By OOTG

Rymer #1 (47-017 - 4711)

Four Stage Foam Frac - BJ Services

17071078

1 <sup>st</sup> Stage:	Alexander ( 11 holes ) ( 5051' to 5187.50' ) Elk ( 4 holes ) ( 4976' to 5051.25' )	60 Quality Foam. 500 gal. 15 60,000# 20/40 sand, 550,000 814 bbls foam.
2 <sup>nd</sup> Stage:	Benson ( 8 holes ) ( 4851.25' to 4853' ) Third Riley ( 7 holes ) ( 4723.50' to 4775' )	60 Quality Foam. 750 gal 15 30,000# 20/40 sand, 370,000 524 bbls foam.
3 <sup>rd</sup> Stage:	Riley ( 11 holes ) ( 4438' to 4453' ) Balltown ( 3 holes ) ( 4013' to 4013.50' )	60 Quality Foam 1,000 gal 15 5,000# 80/100 sand, 30,000# 426,000 SCF N2, 603 bbls fo
4 <sup>th</sup> Stage:	Speechley ( 9 holes ) ( 3309.50' to 3384' ) Warren ( 6 holes ) ( 3265.75' to 3276.75' )	60 Quality Foam. 750 gal 15% 5,000# 80/100 sand, 35,000# 464,000 SCF N2, 593 bbls fo

WELL LOG

KB-GL	0	10	
Clay	10	12	
Sand & Shale	12	120	
Red Rock & Shale	120	139	
Sand & Shale	139	314	½" water @ 2
Red Rock	314	325	
Sand & Shale	325	750	
Red Rock	750	800	
Sand & Shale	800	1064	
Sand	1064	1169	
Sand & Shale	1169	1796	
Shale	1796	1834	
Little Lime	1834	1880	
Big Lime	1880	1950	
Big Injun	1950	2034	
Sand & Shale	2034	2180	
Weir	2180	2301	
Shale	2301	2380	
Berea	2380	2384	
Shale	2384	2600	
Gordon	2600	2616	
Shale	2616	3254	
Warren	3254	3294	<b>Gas Checks</b>
Shale	3294	3304	1790' - No Sh
Speechley	3304	3390	2108' - Oil Oc
Siltstone & Shale	3390	3588	2577' - Odor
Balltown	3588	4334	3208' - Odor
Shale	4334	4403	3969' - 6/10 <sup>th</sup> s
Riley	4403	4468	4404' - 6/10 <sup>th</sup> s
Shale	4468	4702	4801' - Odor
Third Riley	4702	4792	5093' - Odor
Shale	4792	4844	5341' - Odor
Benson	4844	4856	
Shale	4856	4978	
Elk	4978	5058	
Shale	5058	5087	
Alexander	5087	5193	
Sand & Shale	5193	5341	
T.D.	5341		

03/27/2015

PROVIDED BY O&G.

ALJ

1702107P

LONG. 80°48'06.1" 2.890'

LATITUDE 39°12'30"

# RYMER LEASE 34.78 ACRES ± WELL NO. 1

IKE MORRIS  
P/O 6603.75 AC±  
(SURFACE)

MICHAEL ZORN ET UX  
47 AC±  
(SURFACE)

STONE  
(FOUND)

WELL  
NO.1

BARRY MATHIENY  
16.8 AC±  
(SURFACE)

LANE NUTTER  
41 AC±  
(SURFACE)

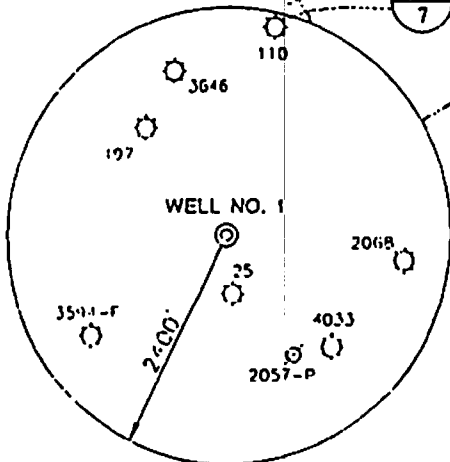
HARRY ZORN ET UX  
34.78 AC±  
(SURFACE)

BARRY MATHIENY  
P/O 76 AC±  
(SURFACE)

### WELL NO. 1 STATE PLANE COORDINATES

(N) 245,888  
(E) 1,630,937

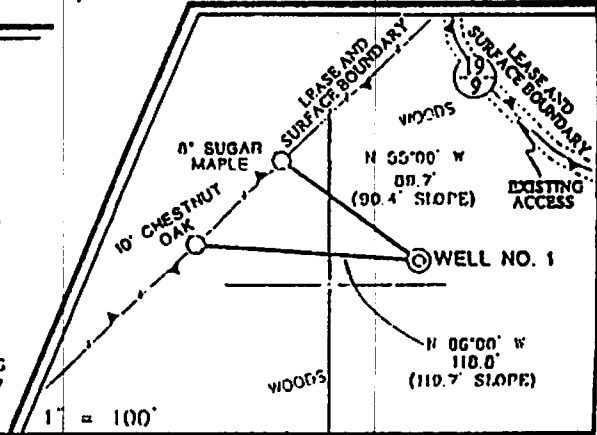
TO SUMMERS



### NOTES ON SURVEY

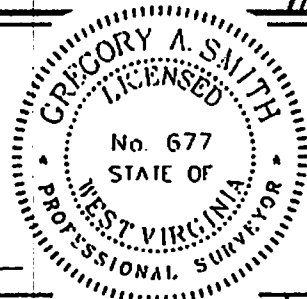
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 10-29-01.
3. LEASE BOUNDARY SHOWN HEREIN TAKEN FROM A TITLE OPINION PREPARED BY GARY MORRIS, LAWYER
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN OCTOBER, 2001.
5. WELL LAT./LONG. ESTABLISHED BY DGPS (SUDOMETER MAPPING GRADE).
6. CO. RT. 19/9 DOES NOT APPEAR ON CURRENT ROAD MAPS, HOWEVER 1937 ROAD MAPS SHOW SAID ROAD AS RUNNING 1.7 MILES EXTENDING FROM CO. RT. 19/7 TO 23/3.

### REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DIVISION OF ENVIRONMENTAL PROTECTION.

*Gregory A. Smith*



(1) DENOTE'S LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE NOVEMBER 12 20 01  
 OPERATORS WELL NO. 1  
 API WELL NO 47-17-04711  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4901F1(114-22)  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 840' SCALE 1" = 400'

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

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

LOCATION: ELEVATION 1215' WATERSHED CAMP RUN OF MIDDLE FORK  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER HARRY L. ZORN, ET UX ACREAGE 34.78±  
 ROYALTY OWNER HARRY L. ZORN, ET UX LEASE ACREAGE 34.78±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF

FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ALEXANDER  
 ESTIMATED DEPTH 5600'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN  
 ADDRESS 22 GARTON PLAZA WESTON, WV 26152 ADDRESS 22 GARTON PLAZA WESTON, WV 26152

COUNTY NAME PERMIT

03/27/2015

LAT. 39°10'00"

0000

4711

RECORD PROVIDED BY O O & G

Form No. 1  
017-2107

DDO - 25

PITTSBURGH & WEST VA GAS CO. Company

COMPLETION DATA SHEET

CLARKSBURG, WEST VA. Address

NO. 2

Well No. 4983, Rosa B. Rymer farm, DDO-25

FORMATION RECORD

Southwest Dist., Doddridge Co., W.Va.

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depth	Remarks	
Red Rock	Red	Soft		1	35	34	35		
Slate	White	"		35	90	55	90		
Lime	"	Hard		90	110	20	110		
Slate	"	Soft		110	125	15	125		
Red Rock	Red	"		125	165	40	165		
Sand	White	"	Water 190	165	235	70	235	1 Bailer	
Slate	"	"		235	320	85	320		
Lime	"	Hard		320	440	120	440		
Red Rock	Red	Soft		440	460	20	460		
Lime	White	Hard		460	474	14	474		
Red Rock	Red	Soft		474	555	81	555		
Lime	White	Hard		555	678	123	678		
Red Rock	Red	Soft		678	755	77	755		
Lime	White	Hard		755	770	15	770		
Slate	"	<del>White</del> Soft		770	845	75	845		
L. Dunkard	"	Hard		845	905	60	905		
Slate	"	Soft		905	959	54	959	S.L. 969'	
Big Dunkard	"	Hard		959	994	35	994		
Slate	"	Soft		994	1020	26	1020		
Gas Sand	"	Hard		1020	1065	45	1065		
Slate	Dark	Soft		1065	1167	102	1167		
1st. Salt	White	Hard	Gas 1168-78	1167	1181	14	1181	S.L. 1169'	
Slate	Dark	Soft		1181	1360	179	1360	S.L. 1360'	
2nd. Salt	White	Hard		1360	1430	70	1430		
Slate	Dark	Soft		1430	1503	73	1503		
3rd. Salt	White	Hard		1503	1572	69	1572		
Slate	Dark	Soft		1572	1623	51	1623		
L. Lime	White	Hard		1623	1645	22	1645		
Slate	"	Soft		1645	1650	5	1650		
Sand	"	Hard		1650	1672	22	1672	Blue Monday	
Slate	"	Soft		1672	1680	8	1680		
Big Lime	"	Hard		1680	1737	57	1737		
Big Injun	"	"	Gas 1770-72	1737	1827	90	1827	S.L. 1772'	
Slate-Shell	"	Soft	" 1780-82	1827	1965	138	1965		
Berea Grit	"	Hard		1965	2070	105	2070		
Slate	Dark	Soft		2070	2361	291	2361		
Gordon Stray	White	Hard		2361	2370	9	2370	S.L. 2367'	
Slate	"	Soft		2370	2440	70	2440		
Pink Rock	Pink	"		2440	2450	10	2450		
Slate-Shell	Dark	Soft&Hard		2450	2502	52	2502		
T O T A L   D E P T H							-----	2502	

Well was ~~shot~~ shot at Big Injun 1784 feet; well was shot at Big Injun 1773 feet.

~~Salt~~ Fresh water at 190' salt feet; fresh water at \_\_\_\_\_ feet.

Well was 6-5/8 hole. ~~drill~~ producing

PITTSBURGH & WEST VA GAS COMPANY.

August 13th, 1930.

Approved \_\_\_\_\_

By, J. F. McNary

03/27/2015

Owner Superintendent.

NOTE: All bottom formations must be noted as indicated above and all key rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.



RECORD PROVIDED BY ODEG

LOCATION OF WELL NO. 4983

PITTSBURGH & W.VA. GAS COMPANY OF

PITTSBURGH PA.

LEASE NO. 21005 LESSOR

R. B. RYMER

ACRES 36.5

DISTRICT SOUTHWEST COUNTY

DODDRIDGE

STATE W.VA.

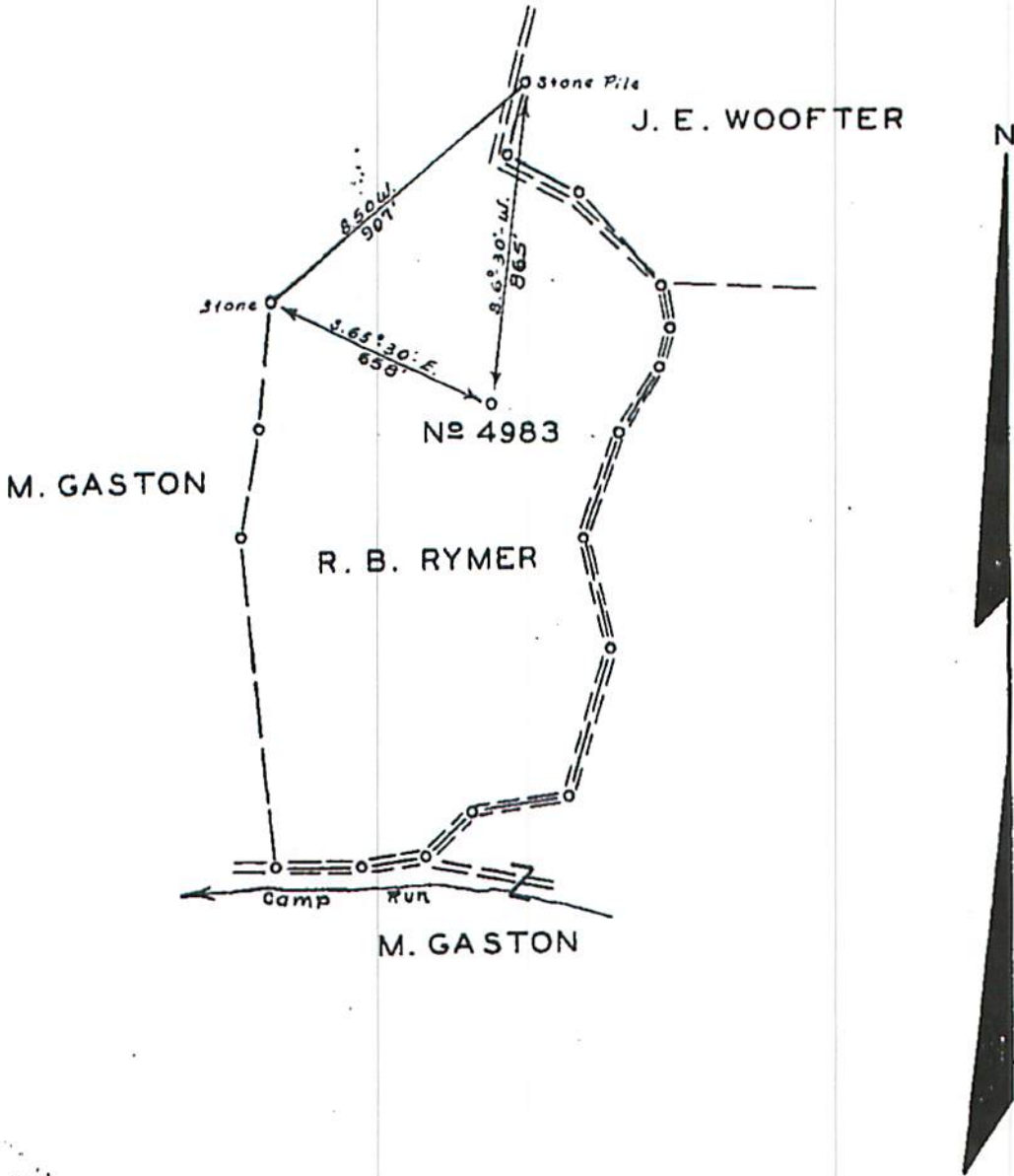
QTR. QUADRANGLE HOLB. N.E. 4-1 DATE

APRIL-18-30

NO. ON LEASE 1

LEASE EXPIRES --F. RESERVATION

ELEVATION 1012'-L.



SCALE: 1"=500'

ENGINEER'S CERTIFICATE

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT AND SHOWS ALL THE INFORMATION TO THE BEST OF MY KNOWLEDGE AND BELIEF, REQUIRED BY THE OIL AND GAS SECTION OF THE MINING LAWS OF WEST VIRGINIA.

*J. H. Berg*  
ENGINEER

03/27/2015

ACKNOWLEDGED BEFORE ME A

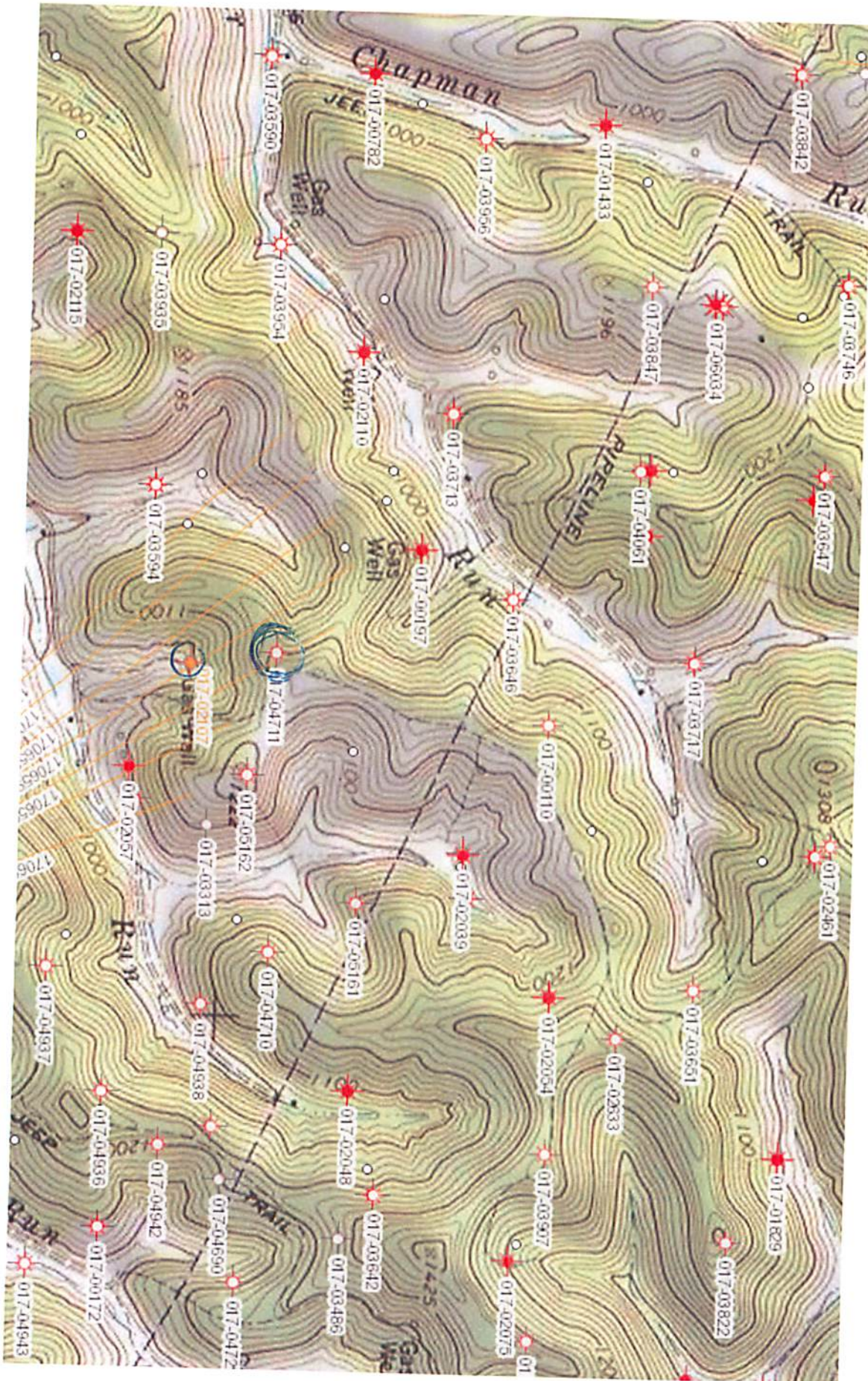
Notary Public

THIS 11th

DAY OF April

1930

*W. C. McMaster*



WW-4-A  
Revised 6/07

- 1) Date: 2-12-15
- 2) Operator's Well Number  
604983 Rymer B-4983
- 3) API Well No.: 47 017 - 02107  
State County Permit

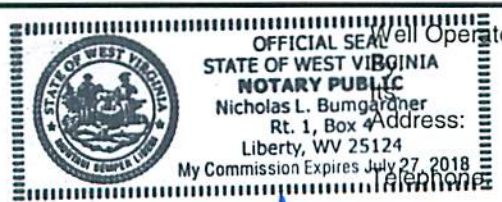
**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS  
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Marion G. Zorn</u> Address <u>1157 Camp Run Rd. ✓</u> <u>West Union, WV 26456</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Douglas Newlon</u> Address <u>4060 Dutchman Road</u> <u>Macfarlan, WV 26148</u> Telephone <u>304-932-8049</u></p>	<p>5) (a) Coal Operator: Name <u>None</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>Marion G. Zorn</u> <u>1157 Camp Run Rd. ✓</u> Address <u>West Union, WV 26456</u></p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration Name <u>None</u> Address _____</p>
--	--

**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  
Victoria J. Roark  
 Permitting Supervisor  
PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

Subscribed and sworn before me this 10 day of FEBRUARY, 2015  
 My Commission Expires: 7/27/2018 Notary Public

RECEIVED  
Office of Oil and Gas

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WV Department of  
Environmental Protection  
**03/27/2015**

My Commission Expires 03/27/15  
Liberty, WV 26154  
Rt. 1, box 1  
Nicholas L. Bunker  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
OFFICIAL SEAL



03/27/2015

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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total P <sub>c</sub>		

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

Marion G. Zorn  
1157 Camp Run Rd  
West Union, WV 26456  
604983 Rymer B-4983 Plugging ✓

PS Form 3800, August 2006 See Reverse for Instructions

**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:

Marion G. Zorn  
1157 Camp Run Rd  
West Union, WV 26456  
604983 Rymer B-4983 Plugging

2. Article Number  
(Transfer from service label)

7014 0510 0000 4438 8175

PS Form 3811, February 2004

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

- Agent
- 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

3. Service Type

- Certified Mail  Express Mail
- Registered  Return Receipt for Merchandise
- Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

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FEB 17 2015

WV Department of  
Environmental Protection

**OT**  
Vicki Roark  
Box 280  
Morgantown, WV 26330

03/27/2015  
102595-02-M-1540

2) Operator's Well Number  
**604983 Rymer B-4983**

3) API Well No.: 47 017 - 02107

**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: Camp Run of Middle Fork of Hughes River Quadrangle: Oxford 7.5'

Elevation: 994 County: Doddridge District: Southwest

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:

- 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

10 day of FEBRUARY

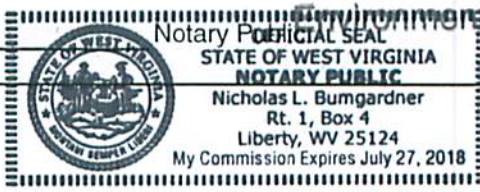
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WV Department of  
Environmental Protection


My Commission Expires

*[Signature]* 7/27/2018



03/27/2015

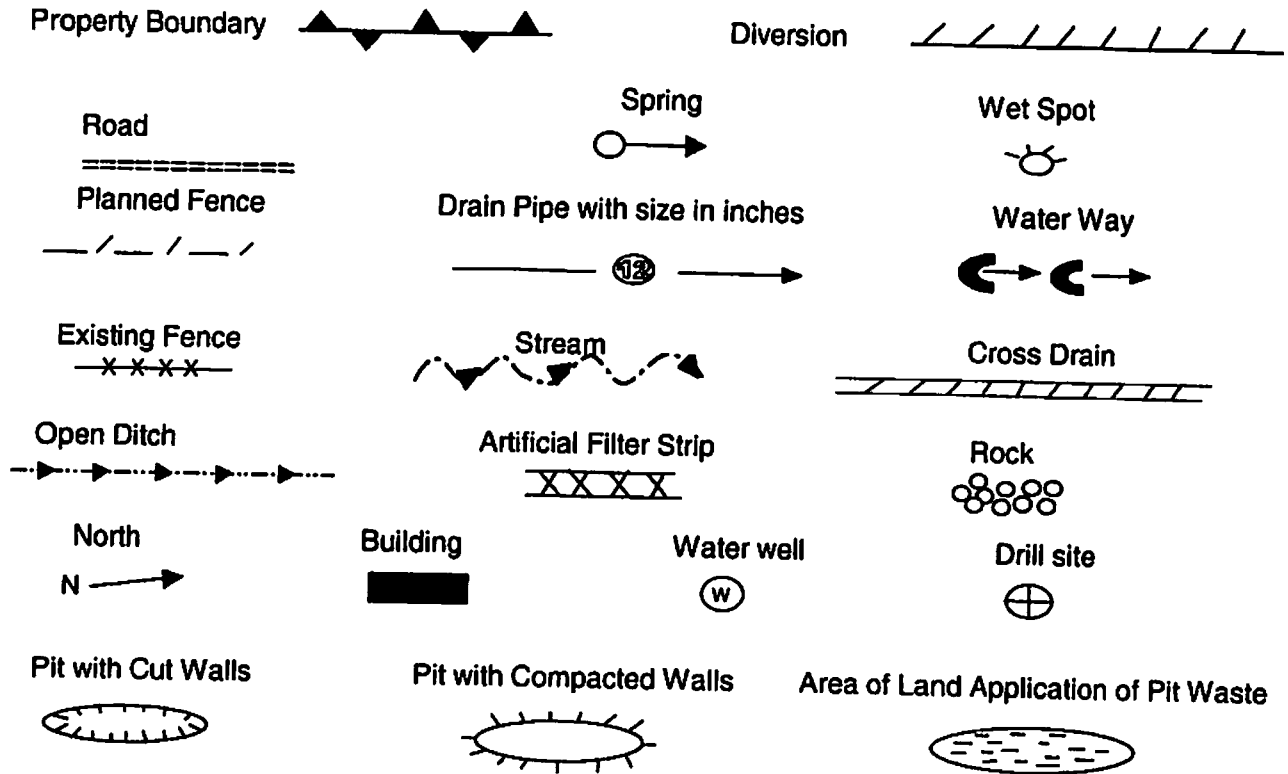
OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Michael J. Rompinger  
Rt. 1, Box 4  
Martinsburg, WV 26154  
My Commission Expires July 25, 2018



03/27/2015

**OPERATOR'S WELL NO.:**  
604983 Rymer B-4983

**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 A. ...*

Comments: *Install pit to allow for vegetation*

Title: *Oil & Gas Inspector* Date: *2-19-2015*  
 Field Reviewed? Yes  No



1702107 P

Topo Quad: Oxford 7.5'

Scale: 1" = 2000'

County: Doddridge

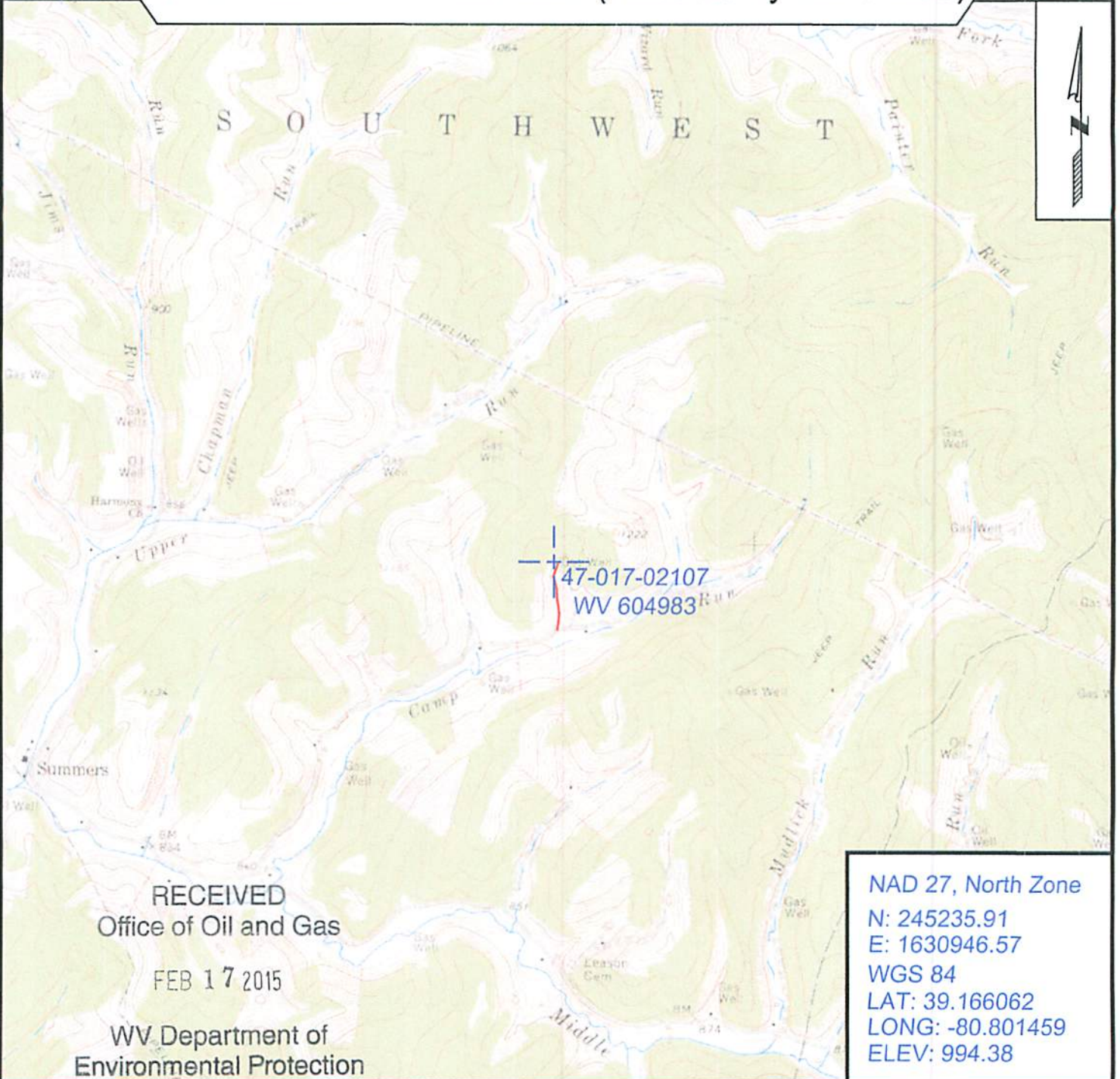
Date: January 21, 2015

District: South West

Project No: 67-30-00-08

47-017-02107 WV 604983 (Rosa B. Rymer #4983)

Topo



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Environmental Protection

NAD 27, North Zone  
 N: 245235.91  
 E: 1630946.57  
 WGS 84  
 LAT: 39.166062  
 LONG: -80.801459  
 ELEV: 994.38



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

03/27/2015

WW-7  
8-30-06



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

API: 47-017-02107 WELL NO.: WV 604983 (Rosa B. Rymer #4983)

FARM NAME: Rymer

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Doddridge DISTRICT: South West

QUADRANGLE: Oxford 7.5'

SURFACE OWNER: Edward S. & Gina B. Bassett

ROYALTY OWNER: Marian G. Zorn, et al.

UTM GPS NORTHING: 4335224

UTM GPS EASTING: 517152 GPS ELEVATION: 303 m (994 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.** 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.

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Signature

PS # 2180  
Title

1/23/15  
Date



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. Rosa A. Rymer #4983 - WV 604983 - API No. 47-017-02107

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 910 +/- Owner: Marion Zorn

Address: 1157 Camp Run Rd., West Union, WV 26456

Phone no. 304-349-4424

Comments:

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**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

Topo Quad: Oxford 7.5'

Scale: 1" = 2000'

County: Doddridge

Date: January 21, 2015

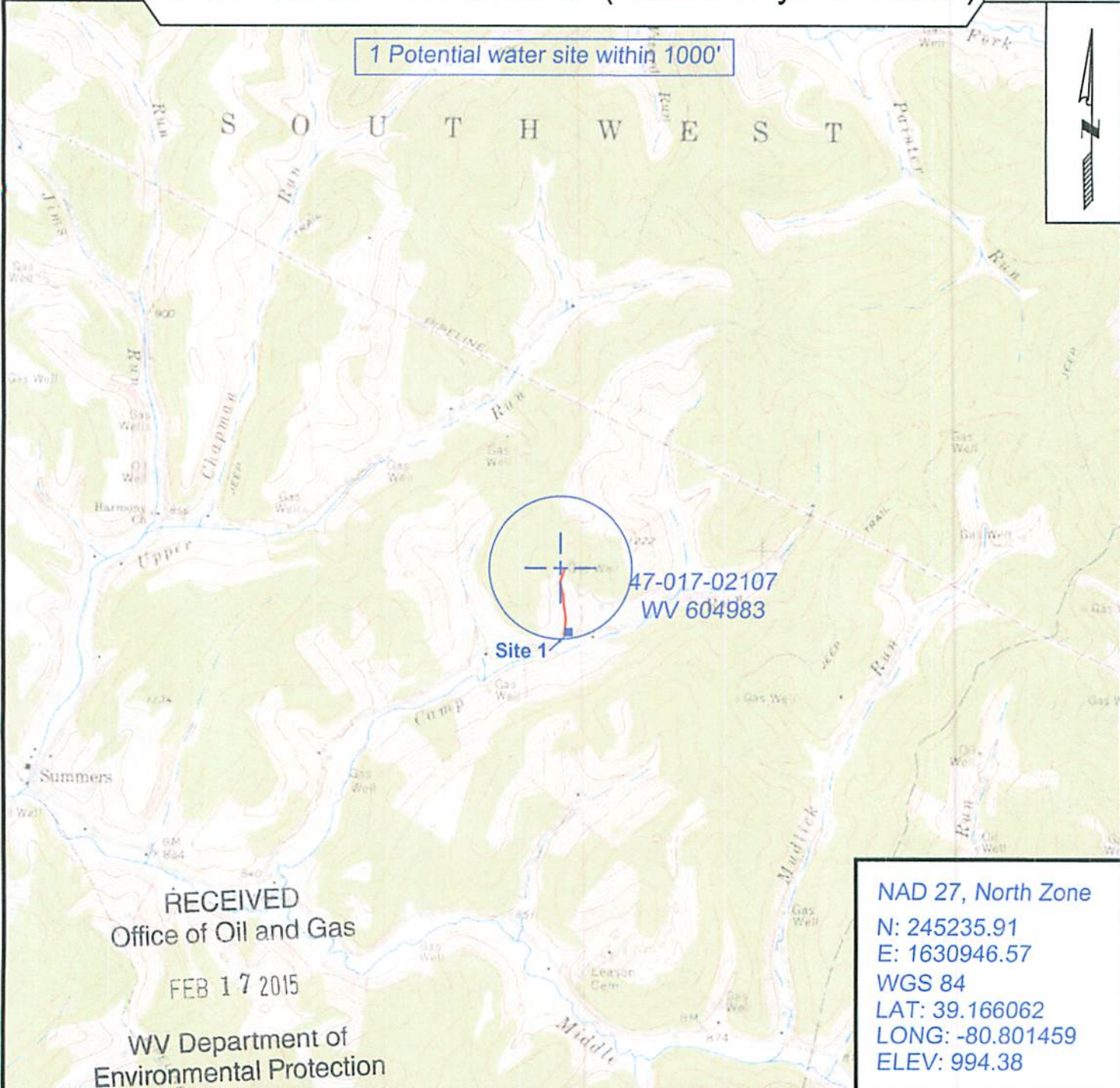
District: South West

Project No: 67-30-00-08

Water

47-017-02107 WV 604983 (Rosa B. Rymer #4983)

1 Potential water site within 1000'



47-017-02107  
WV 604983

Site 1

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Environmental Protection

NAD 27, North Zone  
N: 245235.91  
E: 1630946.57  
WGS 84  
LAT: 39.166062  
LONG: -80.801459  
ELEV: 994.38



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FAX: (304) 649-8608

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

03/27/2015

1702107F

PLUGGING PROGNOSIS  
R.B.Rymer# 4983 (604983)  
Doddridge Co., West Virginia  
API # 47-017-02107  
District Southwest

BY: R. Green  
DATE: 01/28/15

**CURRENT STATUS:**  
10" csg @ 282'  
8 1/4" csg @ 969'  
6 5/8" csg @ 1695'  
  
TD@ 2502'

JOP

**Fresh Water @ 190'**                      **Salt Water @ None reported**  
**1<sup>st</sup> Salt Sand @ 1167'**                      **Coal @ None reported**  
**Gas Shows @ 1385' (2<sup>nd</sup> Salt Sand), 1753' (Big Injun Sand), 2368' (Gordon Sand)**  
**Oil Shows @ None Reported**  
**Elevation: Not Reported**

1. Notify State Inspector, Douglas Newlon 304-932-8049, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg to 2450', gel hole to 1785'.
3. TOO H tbg to 1785', set 140' C1A cement plug 1785' to 1645' ( gas shows ,& 7" casing seat)
4. TIH tag top of plug, add additional C1A if necessary.
5. TOO H tbg 1645', gel hole to next plug TOO H tbg.
6. RIH free point 7" casing, cut 7" casing @ free point. (Est @1600') TOO H Csg
7. Set 100' C1A cement plug 50' in/out of cut. Perforate all Salt Sands, freshwater, coal, and oil & gas shows below cut. Do not omit any plugs.
8. TOO H tbg to 1168', Set 250' C1A cement plug 1168' to 919' (81/4" casing seat gas shows & 1<sup>st</sup> Salt Sand)
9. TOO H tbg to 919', gel hole to next plug TOO H tbg.
10. RIH free point 8 1/4" casing, cut 8 1/4" casing @ free point. (Est @ 750') TOO H Csg
11. Set 100' C1A cement plug 50' in/out of cut. Perforate all Salt Sands, freshwater, coal, and oil & gas shows below cut. Do not omit any plugs.
12. TOO H tbg to 600', set 100' C1A cement plug 600' to 500' (safety plug).
13. TOO H tbg to 500' gel hole to 350'.
14. TOO H tbg to 350' set C1A cement plug 350' to surface.
15. Erect monument with API#.
16. Reclaim location, road to WV-DEP specifications.

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03/27/2015