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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Thursday, January 19, 2017  
WELL WORK PERMIT  
Vertical / Plugging

EQT PRODUCTION COMPANY (A)  
120 PROFESSIONAL PLACE  
BUILDING II  
BRIDGEPORT, WV 26330

Re: Permit approval for 6045  
47-091-00162-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

Operator's Well Number: 6045  
Farm Name: YATES  
U.S. WELL NUMBER: 47-091-00162-00-00  
Vertical / Plugging  
Date Issued: 1/19/2017

Promoting a healthy environment.

01/20/2017

# PERMIT CONDITIONS

## COALBED METHANE WELLS

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. If this well is associated with a mine through by a coal operator, then the plugging methodology (work order) must have Mine Safety and Health Administration (MSHA) approval.

9100162P

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

Date: November 14, 2016  
Operator's Well  
Well No. 606045 (J. D. Yates #6045)  
API Well No.: 47 091 - 00162

**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: 1296 ft. Watershed: Corbin Branch  
Location: Booths Creek County: Taylor Quadrangle: Rosemont 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 Kenneth Greynolds  
Name: 613 Broad Run Road  
Address: Jane Lew, WV 26378

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

KEN GREYNOLDS

By Jmm

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Date

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## PLUGGING PROGNOSIS

### Yates, J.D. #2 (606045)

API # 47-091-00162

District: Booths Creek

County: Taylor

Prepared by: **Craig Duckworth**  
11/7/16

### Current Status:

Elevation: 1305'

10" @ 149'

8 1/4" @ 791'

6 5/8" @ 1242'

3" @ 2148' (pulled)

TD @ 1400' plugged back from 2289' (200 sks cem.)

1<sup>st</sup> Salt Sand @ None Reported

FW @ 60', 230'

SW – None Reported

Gas Shows @ 5<sup>th</sup> Sand (2171' plugged) Big Injun 1294'.

Completion: @ Big Injun

Oil Show – None Reported

Coal Shows - None Reported

- OK
- gum
- 1.) Notify State Inspector **Kenneth Greynolds 304-206-6613** 48 hrs prior to commencing operations.
  - 2.) If any casings without cement in the annulus cannot be retrieved make sure to consult Inspector and at least perforate all Oil, Gas, FW, Elevation and Coal shows in the well.
  - 3.) TIH w/tbg to 1400'; Set 125' C1A Cement Plug @ 1400' to 1275' (Big Injun @ 1294' & Elevation @ 1305' <sup>Spot Gel</sup>)
  - 4.) TOOH w/tbg, Free Point 6 5/8" casing. Cut 6 5/8" @ freepoint, TOOH w/ 6 5/8" casing.
  - 5.) Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all SW, FW, Coal, and Gas Shows below 6 5/8" cut. Do not omit any plugs.
  - 6.) TIH w/tbg Set 200' C1A Cement Plug @ 1275' to 1000' (6 5/8" csg set @ 1242').
  - 7.) TOOH w/tbg, gel hole @ 1000' to 840'.
  - 8.) TOOH w/tbg, set 150' C1A Cement Plug @ 840' to 740' (8 1/4" csg.pt. @ 791') & <sup>gum</sup> ~~water~~ @ 738'

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- 9.) Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all SW, FW, Coal, and Gas Shows below 8 1/4" cut. Do not omit any plugs.
- 10.)TOOH w/tbg, gel hole @ ~~740'~~<sup>698'</sup> to 250'.
- 11.)TOOH w/tbg, Set 250' C1A Cement Plug @ 250' - 0' (Fresh Water @ 230' & 60', 10" & 149')
- 12.)Do not omit any C1A cement plugs shown and use 6% Gel between all Cement plugs.
- 13.)Make sure 6% gel plugs are filled up to the next cement plug, in casing and/or open hole.
- 14.)Top off w/ cement as needed
- 15.)Set Monument & Reclaim location to WV Division of Gas & Oil Specs.

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DATE December 23 19 55

REPORT OF WELL NO. 6045 LESSOR J. D. Yates

DISTRICT OR TOWNSHIP Booths Creek COUNTY Taylor STATE W. Va.

DRILLING BEGAN September 20 19 55 COMPLETED December 13 19 55

CASING AND TUBING DATA

	CONDUCTOR	13"	10"	8 1/4"	6 3/4"	6 1/4"	5 1/2"	4"	3"	2"
USED IN DRILLING			149	791	1242				2300	
LEFT IN WELL			149	791	1242				Pulled	

PACKER DATA			CASING CEMENTED		OIL DATA	
KIND	SIZE	SET AT	FROM	TO	INITIAL DAILY PROD.	PRODUCING SAND
Anchor	6-5/8 X 3	2148				
		Pulled				

OPEN FLOW VOLUME & PRESSURE DATA

DATE	READING	LIQUID	SIZE		MINUTES										R. P.	HRS.	VOLUME M. C. F.	PRODUCING SAND
			OPENING	TUBING	1/2	1	2	3	4	5	10	15	20	30				
9-19-55	35/10	W	1/2	3	0	1/2	1	1 1/2	1 3/4	2	-	-	-	-	156	48	10.7H	
12-13-55	7/10	W	1/2	6-5/8	0	0	1/2	1	1 1/2	2	2 1/2	3 1/2	4 1/2	6	230	48	4.8H	

FORMATIONS DRILLED THROUGH

FORMATIONS	TOP	BOTTOM	GAS AT	OIL AT	WATER AT	FORMATIONS	TOP	BOTTOM	GAS AT	OIL AT	WATER AT
WAYNESBURG COAL						GORDON SAND (THIRD)					
MAPLETOWN "						4TH "				Pulled 2300'	of 3" tubing.
PITTSBURGH "						4TH A "					
MURPHY SAND						5TH " (MCDONALD)				One 6-5/8" X 3" Anchor Packer	
BAKERSTOWN COAL						5TH A "					
L. DUNKARD SAND						BAYARD " (SIXTH)				Cleaned out to 2238'.	
B. DUNKARD SAND						BAYARD STRAY SAND					
1ST GAS SAND						" " STR. SD.				PARTIAL PLUGGING	
1ST SALT SAND						ELIZABETH SAND				Savings from 2289' to 2238'.	
2ND " "						1ST WARREN SAND				Ran 200 bags of cement from	
3RD " "										2238' to 1300'. Pulled to	
MAXTON "						SPEECH, STRAY SAND				1400'. Present total depth.	
LITTLE LIME						SPEECHLEY SAND					
PENCIL CAVE						TIONA SAND					
BIG LIME (KEENER)						1ST BALLTOWN SAND					
BIG INJUN SAND											
SQUAW "						SHEFFIELD "					
2ND GAS "						1ST BRADFORD " (BENSON)					
MURRYSVILLE SAND (BEREA)						KANE SAND					
UPPER 30' SAND											
GANTZ { 100' SAND						ELK SAND					
30' SAND (NINEVAH)						ORISKANY SAND					
SNEE SAND											
GOR. STRAY SAND						TOTAL DEPTH					

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REMARKS Well partially plugged from 2289' to 1400'. Pulled 2300' of 3" tubing. Completed as a test well in the Comet Gas Storage Pool.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Permit No. \_\_\_\_\_ Oil or Gas Well "GAS"  
(KIND)

Company Pittsburgh & West Va Gas Company.

Address Clarksburg, West Va.

Farm J. D. Yates Acres \_\_\_\_\_

Location (waters) Fairmont S/W. 4-1

Well No. 6045 Elev. 1305'

District Booths Creek County Taylor

The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_

Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_

Drilling commenced May 22nd, 1918

Drilling completed June 25th, 1918

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

Salt water \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
10	149'	149'	Size of
8 1/4	802'	802'	
6 3/4	1234'	1234'	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
Clay			0	55			
Lime			55	,80	Water	60'	
Red Rock	Red		80	155			
Lime	Light		155	175			
Slate	"		175	225			
Lime	Black		225	300	Water	230'	
Sand	White		300	390			
Slate	Dark		390	425			
Lime	Light		425	450			
Slate	Dark		450	480			
Sand	White		480	520			
Slate	Dark		520	565			
Sand	White		565	600			
Slate	Dark		600	625			
Lime	Light		625	640			
Slate	Dark		640	650			
Lime	"		650	660			
Slate	Black		660	665			
Sand	White		665	765	Water	738'	
Slate	Dark		765	775			
Sand	White		775	795			
Slate	Dark		795	880			
Sand	White		880	930			
Red Rock	Red		930	1000			
Lime	White		1000	1100			
Red Rock Shells			1100	1206			
Little Lime			1206	1216			
Pencil Cave			1216	1221			
Big Lime			1221	1282			
Big Injun			1282	1380	Gas	1294'	Red Rock 1305-1311'
Rock Slate	Light		1380	1405			
Red Rock	Red		1405	1430			
Lime Shells & Slate	Dark		1430	1530			
Slate	Dark		1530	1570			
Slate&Shells			1570	1605			
Slate	Dark		1605	1625			
Slate&Shells			1625	1730			
50 Ft. Sand			1730	1845			
Slate	Dark		1845	1851			

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
30 Ft. Sand			1851	1861			
Slate&Shells			1861	1910			
Sand	Dark		1910	1945			
Slate&Shells			1945	2155			
5th. Sand			2155	2200	Gas	2171'	
Slate	White		2200	2268			
Sand	Light		2268	2275			
Slate	Dark		2275	2289			
Total Depth.				2289			

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Date December 6th, 1946

APPROVED \_\_\_\_\_ NOV 21 2016 19 \_\_\_\_\_  
PITTSBURGH & WEST VA GAS COMPANY, Owner

By \_\_\_\_\_  
(Title)

WV Department of  
Environmental Protection 01/20/2017



# FORMATIONS

9100162P

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
lay		55				
ime	55	80			60	4 Bail
sd rock	80	155				
ime	155	175				
late	175	225			230	
ime	225	300				
and	300	390				
late	390	425				
ime	425	450				
late	450	480				
and	480	520				
late	520	565				
and	565	600				
late	600	625				
ime	625	640				
late	640	650				
ime	650	660				
late	660	665				
and	665	765			738	
late	765	775				
and	775	795				
late	795	880				
and	880	930				
sd rock	930	1000				
ime	1000	1100				
sd rock & shells	1100	1206				
ittle lime	1206	1216				
encil cave	1216	1221				
lg lime	1221	1282			1294	
lg injun	1282	1380				
sd rock slate	1380	1405				
sd rock	1405	1430				
ime shells slate	1430	1530				
late	1530	1570				
late & shells	1570	1605				
late	1605	1625				
late shells	1625	1730				
ifty foot	1730	1845				
late	1845	1851				
irty foot	1851	1861				
late & shells	1861	1910				
and	1910	1945				
late	1945	2155				
ifth sand	2155	2200			2171	
late	2200	2268				
and	2268	2275				
late	2275	2289	Total			

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WELL RECORD.

El 1205

Company P. R. Walker Co. Farm No. \_\_\_\_\_ Serial No. 6045 Outside Well No. \_\_\_\_\_  
 Lessor J. D. Yates Acres \_\_\_\_\_ Map Loc. \_\_\_\_\_  
 Elev. \_\_\_\_\_ Ft. Dist. Booth Creek County Taylor State W. Va.  
 Date of Loc. \_\_\_\_\_ 19 \_\_\_\_\_ Date of Permit \_\_\_\_\_ 19 \_\_\_\_\_ Permit No. \_\_\_\_\_

Commenced Drg. 5/26 1918  
 Completed Drg. 6/25 1918

Casing and Tubing Record.

Date Shot	Depth Shot	O.O.F.	O.O.F.	Volume	Orig. R.P.	Oil	Fresh Water	Salt Water	Producing Sand	Csg. & Tubg.	Used In Drg.	Left In Well.	Casing Packers.
_____ 19 _____	_____ Ft. _____ Qts.	_____/10ths. W. _____ Opng.	_____/10ths. Mer. _____ Opng.	_____ Cu. Ft.	_____ Lbs. _____ Hrs.	_____ Bbls. 1st. 24 Hrs.	_____ Ft.	_____ Ft.	_____	16"			Kind of Packer
										13"			
										10"	<u>149</u>	<u>149</u>	Size _____ X
										8-1/4"	<u>791</u>	<u>791</u>	Depth Set
										6-5/8"	<u>1242</u>	<u>1242</u>	Kind of Packer
										5-3/16"			
										4"			Size _____ X
										3"	<u>2300</u>	<u>2300</u>	Depth Set
										2"			
										Tubing Packer Size _____ X			
										Kind of Packer _____			
										Packer set at <u>2148</u> Ft.			
										Amount of Anchor <u>138</u> Ft.			

MINUTE AND PRESSURE TEST.

Date	Opening	1/2"	1"	2"	3"	4"	5"	10"	20"	30"	R.P.	Hrs.
<u>6-26-18</u>	<u>3"</u>	<u>5</u>	<u>10</u>	<u>20</u>			<u>49</u>	<u>93</u>		<u>250</u>	<u>835</u>	<u>24</u>

L O G.

Formation	Top	Bottom	Remarks	Formation	Top	Bottom	Remarks
<u>Sand</u>	<u>300</u>	<u>390</u>					
"	<u>480</u>	<u>520</u>					
"	<u>565</u>	<u>600</u>					
"	<u>665</u>	<u>765</u>	<u>W-738</u>				
"	<u>775</u>	<u>795</u>					
"	<u>880</u>	<u>930</u>					
<u>P. Limestone</u>	<u>1206</u>	<u>1216</u>					
<u>P. Cave</u>	<u>1216</u>	<u>1221</u>					
<u>B. Limestone</u>	<u>1221</u>	<u>1282</u>					
<u>B. Shale</u>	<u>1282</u>	<u>1380</u>	<u>G-1294</u>				
<u>50 FC</u>	<u>1730</u>	<u>1845</u>					
<u>30 FC</u>	<u>1857</u>	<u>1861</u>					
<u>Sand</u>	<u>1910</u>	<u>1945</u>					
<u>50 Sand</u>	<u>2155</u>	<u>2200</u>	<u>G-2171</u>				
<u>Sand</u>	<u>2268</u>	<u>2275</u>					
<u>T. S.</u>		<u>2289</u>					

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Note: Under "Remarks" give depth at which water-gas-oil-Environmental Protection

COMPANY

Record of Well No. **6045** Located on **J. D. Yates** Farm **Apr 23** 19  
**Booths Creek** District **Taylor** County **West Va.** State  
 Division **(J)** District No. Drilled under Well Order  
 Rig built by **Jno. Craig** Began **May 9th,** 1918 Completed **May 16th,** 19  
 Well drilled by **Wm Barnhart & Co** Began **May 22nd,** 1918 Completed **June 25th,** 19  
 Depth of Well **2289** feet Size of Hole **6 1/2** Producing **240.000** Cu. Ft

CASED WITH			REMARKS
AMOUNT	SIZE	KIND	
149'	10"	old	
791	8 1/2	"	
1242	6 1/2	"	

COAL VEINS

FORMATIONS

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
and	300	390				
"	480	520				
"	565	600				
"	665	765			738	
"	775	795				
"	880	930				
ittle Lime	1206	1216				
encil Cave	1216	1221				
ig Lime	1221	1282				
ig Injun	1282	1380		1294		
ifty Foot	1730	1845				
irty Foot	1851	1861				
and	1910	1945				
ifth Sand	2155	2200		2171		
and	2268	2275				
otal depth in slate		2289				

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FIRST PRESSURE TEST IN 6 1/2 CASING	
30 Sec.	2 lbs. 8oz
1 Min.	4 " 10
2 "	9 "
5 "	21 "
10 "	41 "
15 "	61 "
30 "	116 "
Rock Pressure	" in
Taken	19
By	

REMARKS 9100162P

WELL TUBED AND PACKED June 26th 1918

VIZ:- 2300' 3" Tubing Packer set at 2148' Anchor 138'6"

FIRST PRESSURE TEST IN June 26 TUBING		Casing Head		REMARKS
30 Sec.	5 lbs.	30 Sec	2 lbs	
1 Min.	10 "	1 Min	3	
2 "	20 "	2 "	5	
5 "	49 "	5 "	11	
10 "	93 "	10 "	23	
15 "	137 "	15 "	33	
30 "	250 "	30 "	65	
Rock Pressure	835 " in 24 hours	Rock Pressure	315 lbs in 24 h	
Taken	June 27 1918		June 27 1918	
By	Floyd Evans		Floyd Evans	

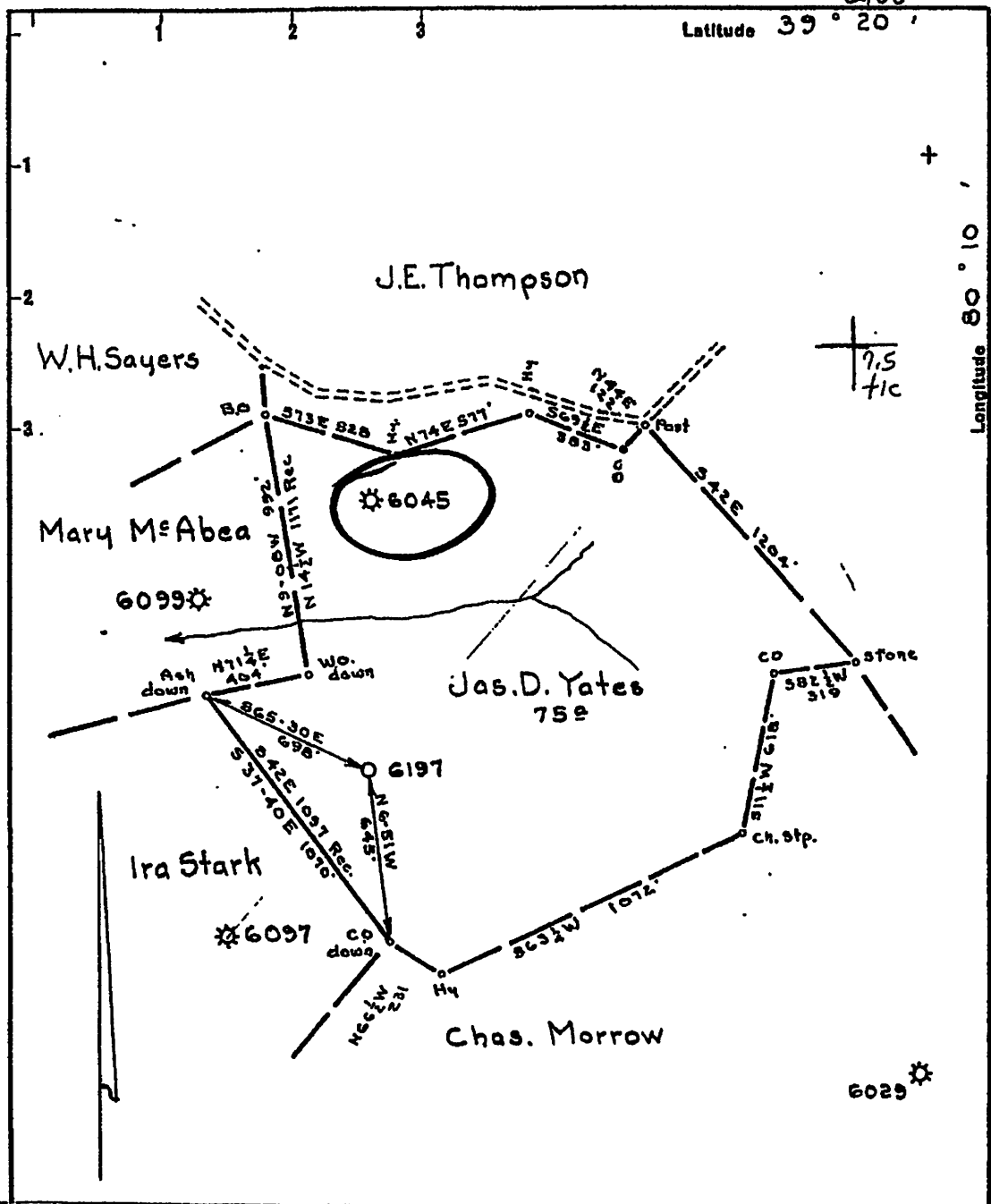
MATERIAL FOR THIS WELL RECEIVED FROM FOLLOWING SOURCES:

- Old Rig from 6044
- New Lumber from D. L. Brown 4,087ft.

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8/20/2017

9100162P

2100'



OPERATORS WELL NO. 6045  
 API WELL NO. 47-091-00162

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

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

LOCATION: ELEVATION 1290' dat WATER SHED Corbin Branch  
 DISTRICT Brooks Creek COUNTY Taylor  
 QUADRANGLE Rosemont

SURFACE OWNER \_\_\_\_\_ ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER Yates LEASE ACREAGE \_\_\_\_\_  
 LEASE NO. \_\_\_\_\_ NOV 21 2016

PRODUCING FORMATION \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

WELL OPERATOR Equistrans DESIGNATED AGENT \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS \_\_\_\_\_

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01/20/2017

91 00162 P

WW-4-A  
Revised 6/07

1) Date: November 14, 2016  
2) Operator's Well Number  
606045 (J. D. Yates #6045)  
3) API Well No.: 47 091 - 00162  
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 Dennis Leo Withers and John Zelby  
Address 2588 Middleville Road  
Flemington, WV 26347  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Kenneth Greynolds  
Address 613 Broad Run Road  
Jane Lew, WV 26378  
Telephone (304) 206-6613

5) (a) Coal Operator:  
Name Arch Coal  
Address c/o Vaughn Miller  
100 Tygart Drive  
Grafton, WV 26354  
(b) Coal Owner(s) with Declaration  
Name Dennis Leo Withers and John Zelby  
2588 Middleville Road  
Address Flemington, WV 26347  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name Arch Coal  
Address c/o Vaughn Miller  
100 Tygart Drive  
Grafton, WV 26354

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

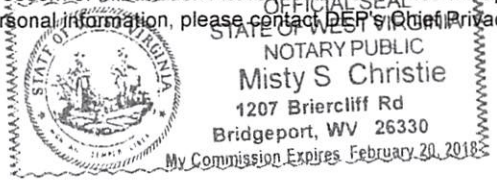
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
  - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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 15th day of November, 2016  
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](mailto:depprivacyofficer@wv.gov).



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WV Department of Environmental Protection

01/20/2017

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL & GAS**  
**FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN**

Operator Name: EQT PRODUCTION COMPANY OP CODE: \_\_\_\_\_

Watershed (HUC 10): \_\_\_\_\_ Corbin Branch \_\_\_\_\_ Quadrangle: \_\_\_\_\_ Rosemont 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_ No X

Will a pit be used? Yes X No \_\_\_

If so, please describe anticipated pit waste:

**Formation Fluids**

Will a synthetic liner be used in the pit? Yes X No \_\_\_ Is so, what ml.? 20 - 40 ml

Proposed Disposal Method for Treated Pit Wastes:

- \_\_\_\_\_ Land Application (if selected provide a completed form WW-9-GPP)
- \_\_\_\_\_ Underground Injection (UIC Permit Number \_\_\_\_\_)
- X \_\_\_\_\_ Reuse (at API Number -- Various \_\_\_\_\_)
- X \_\_\_\_\_ Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
- \_\_\_\_\_ Other: (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

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? \_\_\_\_\_

Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 term 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

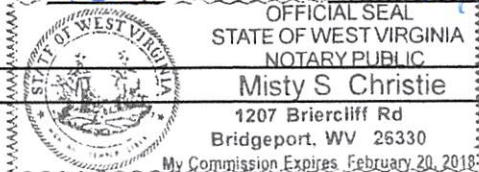
Company Official Signature \_\_\_\_\_

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor - WV

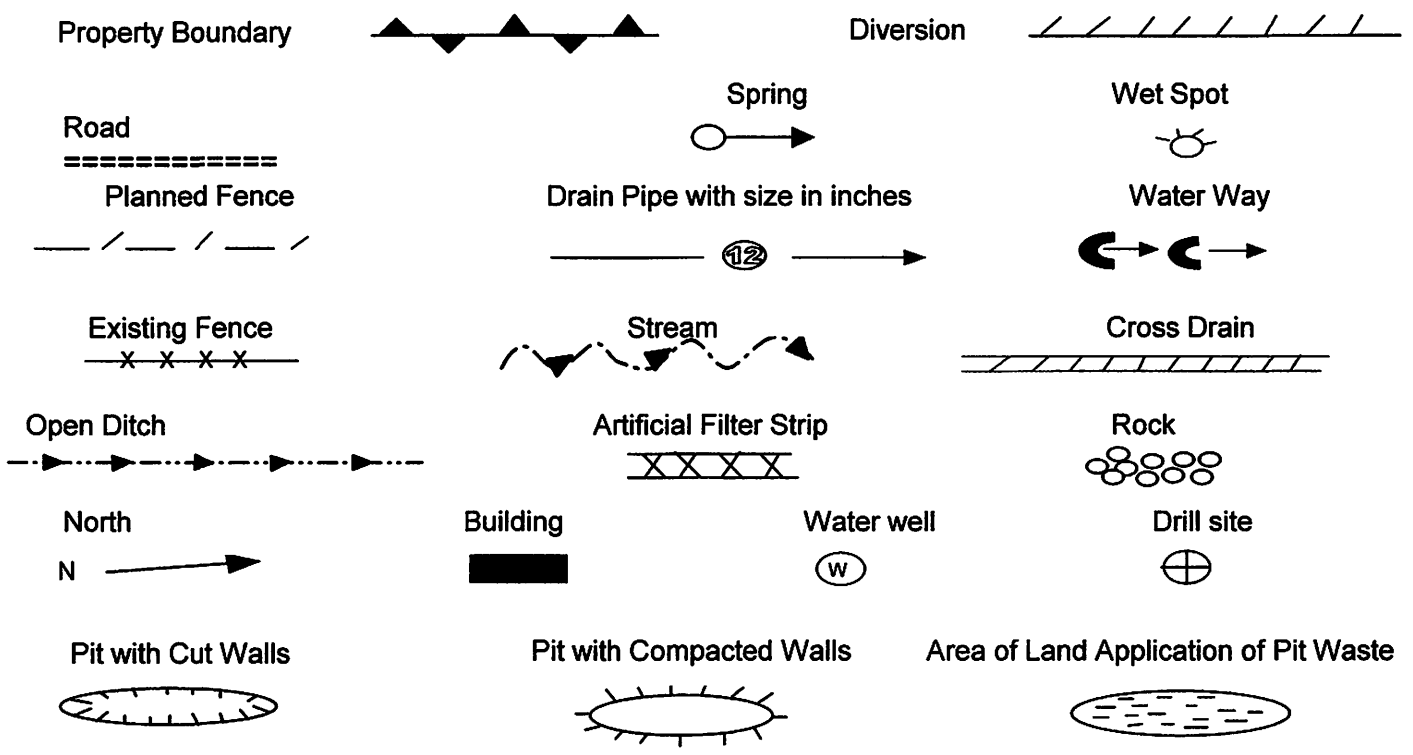
Subscribed and sworn before me this 15th day of November 2016

My Commission Expires \_\_\_\_\_  
Misty S. Christie



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**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: \_\_\_\_\_

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

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed?          Yes          No

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9100162P

**EQT Production Water plan**  
**Offsite disposals**

**Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

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Topo Quad: Rosemont 7.5' Scale: 1" = 200'

County: Taylor Date: October 6, 2016

District: Booths Creek Project No: 206-13-00-16

**47-091-00162 WV 606045 (J. D. Yates #6045)**

Topo

**Pit Location Map**



3  
8

Existing Well  
Access Road

47-091-00162  
WV 606045

**LEGEND**

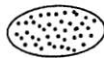
PIT-CUT WALLS



PIT-COMPACTED WALLS



AREA OF LAND APPLICATION  
OF PIT WASTE



NAD 27, North Zone  
N:299,136.71  
E:1,809,561.50

WGS 84  
LAT:39.319439  
LONG:-80.172931  
ELEV:1296.33'



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:

Office of Oil and Gas  
**EQT Production Company**

NOV 8 2016  
PO Box 280  
Bridgeport, WV 26330

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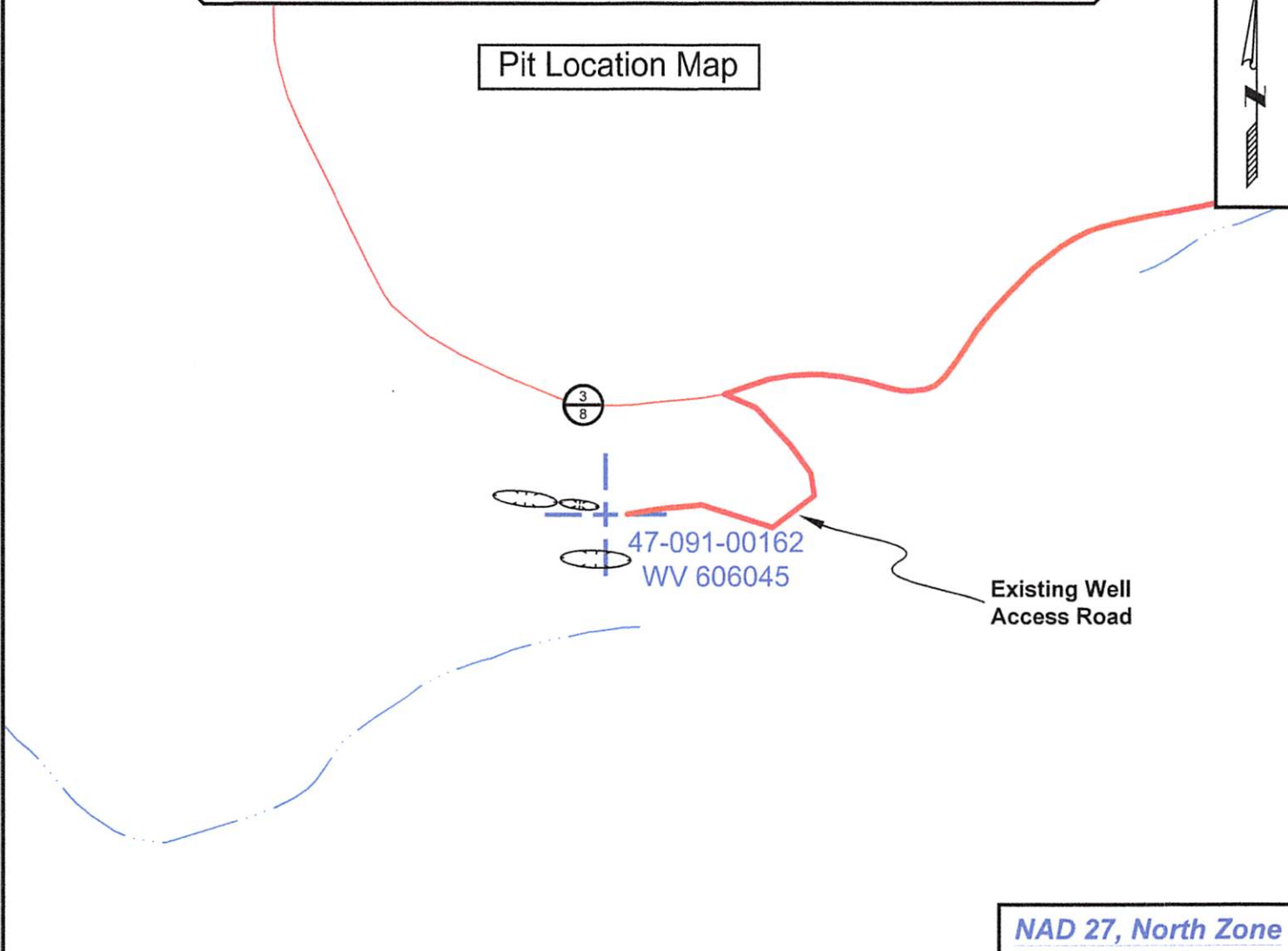
9100162P

Topo Quad: Rosemont 7.5' Scale: 1" = 500'  
 County: Taylor Date: October 6, 2016  
 District: Booths Creek Project No: 206-13-00-16

**47-091-00162 WV 606045 (J. D. Yates #6045)**



Topo

**Pit Location Map**



Existing Well Access Road

**LEGEND**

- PIT-CUT WALLS 
- PIT-COMPACTED WALLS 
- AREA OF LAND APPLICATION OF PIT WASTE 

**NAD 27, North Zone**  
**N:299,136.71**  
**E:1,809,561.50**

**WGS 84**  
**LAT:39.319439**  
**LONG:-80.172931**  
**ELEV:1296.33'**



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PREPARED FOR:  
**EQT Production Company**  
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 WV Department of Environmental Protection  
 01/20/2017

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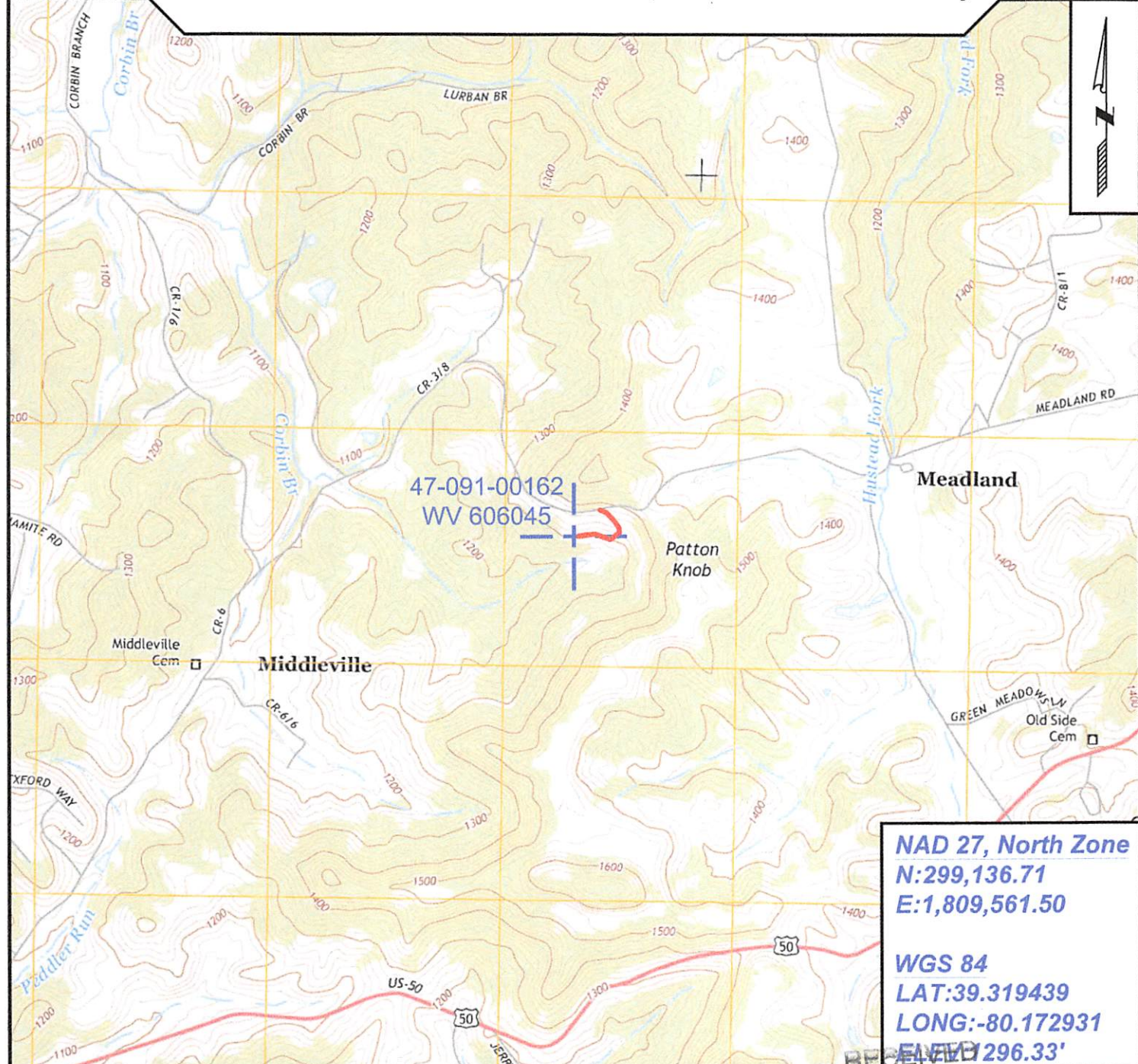
Topo Quad: Rosemont 7.5' Scale: 1" = 2000'

County: Taylor Date: October 6, 2016

District: Booths Creek Project No: 206-13-00-16

# 47-091-00162 WV 606045 (J. D. Yates #6045)

Topo



47-091-00162  
WV 606045

**NAD 27, North Zone**  
**N:299,136.71**  
**E:1,809,561.50**

**WGS 84**  
**LAT:39.319439**  
**LONG:-80.172931**  
**ELEV:296.33'**



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: **Office of Oil and Gas**  
**EQT Production Company**  
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 01/20/2017

91 00162P

WW-7  
8-30-06



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

API: 47-091-00162 WELL NO.: WV 606045 (J. D. Yates #6045)

FARM NAME: J. D. Yates

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Taylor DISTRICT: Booths Creek

QUADRANGLE: Rosemont 7.5'

SURFACE OWNER: Dennis Leo Withers and John M. Zebley

ROYALTY OWNER: Dennis Leo Withers and John M. Zebley, et al.

UTM GPS NORTHING: 4352552

UTM GPS EASTING: 571295 GPS ELEVATION: 395 m (1296 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.

[Signature]  
Signature

PS # 2180  
Title

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### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. J. D. Yates #6045 WV 606045 47-091-00162

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 877 +/- Owner: Jason & Dawn Harman  
Address: RR 1 Box 201, Flemington, WV 26347 Phone No. \_\_\_\_\_  
Comments: \_\_\_\_\_

Site: 2 Spacing: 599 +/- Owner: Bettie Laprade  
Address: 2928 Middleville Rd., Flemington, WV 26347 Phone No. \_\_\_\_\_  
Comments: Public water

Site: 3 Spacing: 702 +/- Owner: Arthur & Frances Teets  
Address: 2915 Middleville Rd., Flemington, WV 26347 Phone No. \_\_\_\_\_  
Comments: Public water

Site: 4 Spacing: 422 +/- Owner: Kelly Hyde  
Address: 3006 Middleville Rd., Flemington, WV 26347 Phone No. \_\_\_\_\_  
Comments: Public water

Site: 5 Spacing: 246 +/- Owner: Dennis Withers & John Zebley  
Address: 2588 Middleville Rd., Flemington, WV 26347 Phone No. \_\_\_\_\_  
Comments: Abandoned house

Site: 6 Spacing: 491 +/- Owner: Douglas Whyte  
Address: 3017 Middleville Rd., Flemington, WV 26347 Phone No. \_\_\_\_\_  
Comments: Spring in front yard

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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

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

NOV 21 2016  
MARTINSBURG OFFICE  
25 Lights Addition Drive  
Martinsburg, WV 26151  
phone: 304-901-2162  
fax: 304-901-2162  
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