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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

July 08, 2013

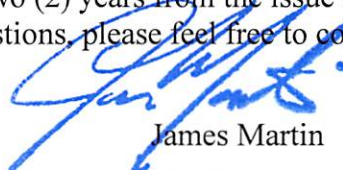
**WELL WORK PERMIT**  
**Horizontal 6A Well**

This permit, API Well Number: 47-1706250, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 514318  
Farm Name: JORDAN FAMILY PARTNERSHIP  
**API Well Number: 47-1706250**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 07/08/2013

**Promoting a healthy environment.**

**07/12/2013**

# PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

) Well Operator: EQT Production Company

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Operator ID County District Quadrangle

) Operator's Well Number: 514318 Well Pad Name CPT11

Elevation, current ground: 1,130.0 Elevation, proposed post-construction: 1,111.0

) Well Type: (a) Gas  Oil   
Other \_\_\_\_\_

(b) If Gas: Shallow  Deep   
Horizontal

) Existing Pad? Yes or No: No

) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):  
Target formation is Marcellus at a depth of 6979' with the anticipated thickness to be 46' feet and anticipated target pressure of 4691 PSI

) Proposed Total Vertical Depth: 7,101 ✓

) Formation at Total Vertical Depth: Onondaga

) Proposed Total Measured Depth: 14,600

) Approximate Fresh Water Strata Depths: 66,337,386, 406, 616, 704

) Method to Determine Fresh Water Depth: By offset wells

) Approximate Saltwater Depths: 1661 & 1389

) Approximate Coal Seam Depths: 852 & 1264

) Approximate Depth to Possible Void (coal mine, karst, other): None Reported

) Does land contain coal seams tributary or adjacent to, active mine? None Reported

) Describe proposed well work: Drill and complete a new horizontal well. The vertical drill to go down to approximately depth of 7101'  
Tagging the Onondaga not more than 100' then plug back to approximately 5527' and kick off the horizontal leg into the marcellus using a  
slick water frac.

) Describe fracturing/stimulating methods in detail: \_\_\_\_\_  
draulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from  
shwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid,  
illing agent, gel breaker, friction reducer, biocide, and scale inhibitor). Stage lengths vary from 150 to 450 feet. Average approximately  
0,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 43.82

) Area to be disturbed for well pad only, less access road (acres): 15.68

*Davis W. ...*  
*Douglas Newton*  
*4-19-2013*

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CASING AND TUBING PROGRAM

20)

<u>TYPE</u>	<u>Size</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft.</u>	<u>FOOTAGE: for Drilling</u>	<u>INTERVALS: Left in Well</u>	<u>CEMENT: Fill- up (Cu.Ft.)</u>
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	804	804	705 C.T.S.
Coal	-	New	-	-	-	-	-
Intermediate	9 5/8	New	MC-50	40	5,242	5,242	2066 C.T.S.
Production	5 1/2	New	P-110	20	14,600	14,600	See Note 1
Tubing	2 3/8		J-55	4.6			will be set 100' less than TD
Liners							

<u>TYPE</u>	<u>Size</u>	<u>Wellbore Diameter</u>	<u>Wall Thickness</u>	<u>Burst Pressure</u>	<u>Cement Type</u>	<u>Cement Yield</u>
Conductor	20	24	0.635	-	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	1	1.21
Coal	-	-	-	-	-	-
Intermediate	9 5/8	12 3/8	0.395	3,590	1	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

Packers

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

GOS  
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21) Describe centralizer placement for each casing string.

- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One cent at the shoe and one spaced every 500'.
- Production: One spaced every 1000' from KOP to Int csg shoe

22) Describe all cement additives associated with each cement type.

Surface (Type 1 Cement): 0-3% Calcium Chloride ✓

Used to speed the setting of cement slurries.

0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.

Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

Production:

Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.

0.3% CFR (dispersant). Makes cement easier to mix.

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Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.

0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.

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60 % Calcuim Carbonate. Acid solubility.

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0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.

23) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating

one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance hole cleaning use a soap sweep or increase injection rate & foam concentration.

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

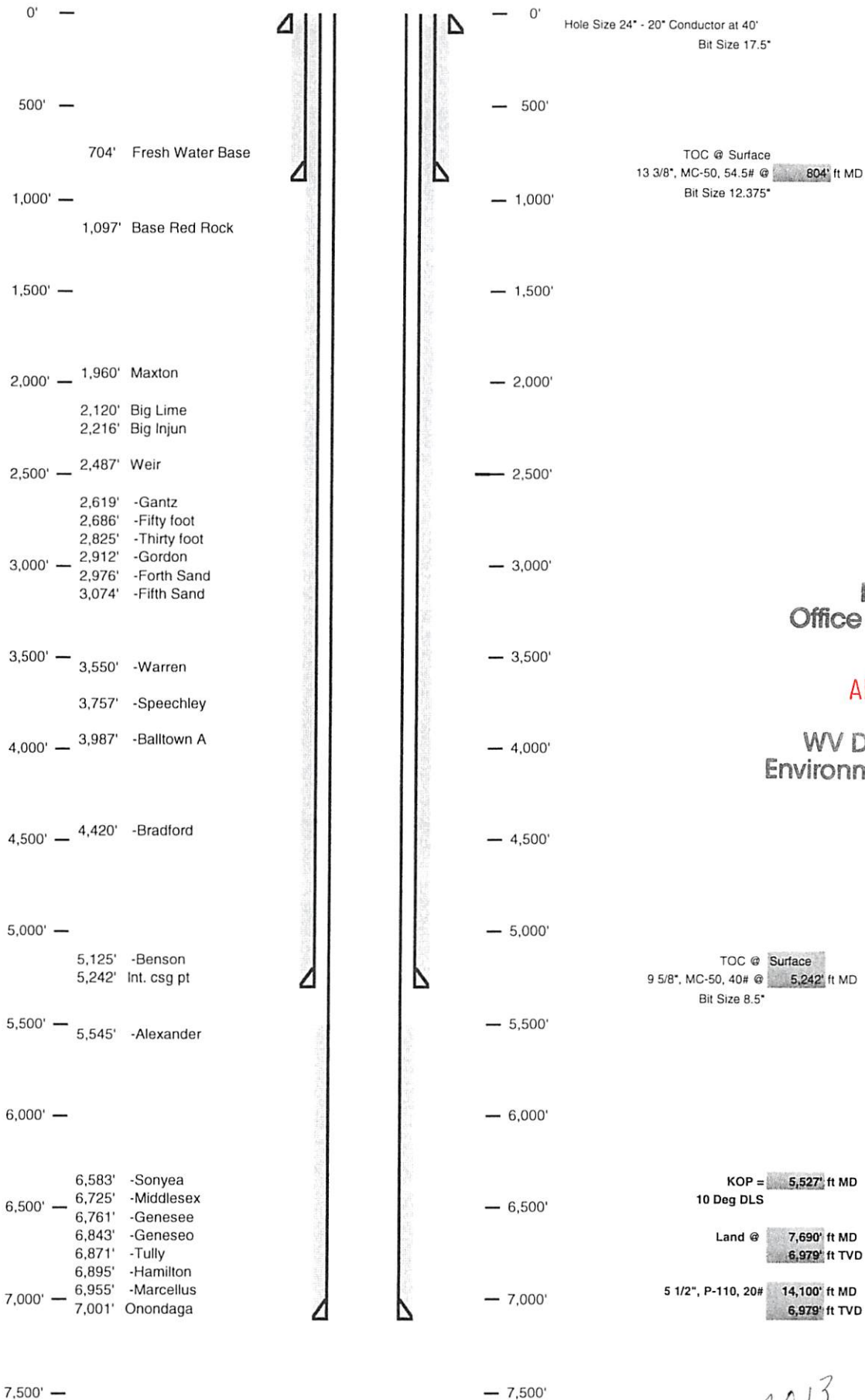
\*Note: Attach additional sheets as needed.

4701706250

Well Schematic  
EQT Production

Well Name 514318 (CPT11H3)  
County Doddridge  
State West Virginia

Elevation KB: 1121  
Target Marcellus  
Prospect  
Azimuth 165.87  
Vertical Section 7101



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DCN 4-19-2013

*[Handwritten signature]*

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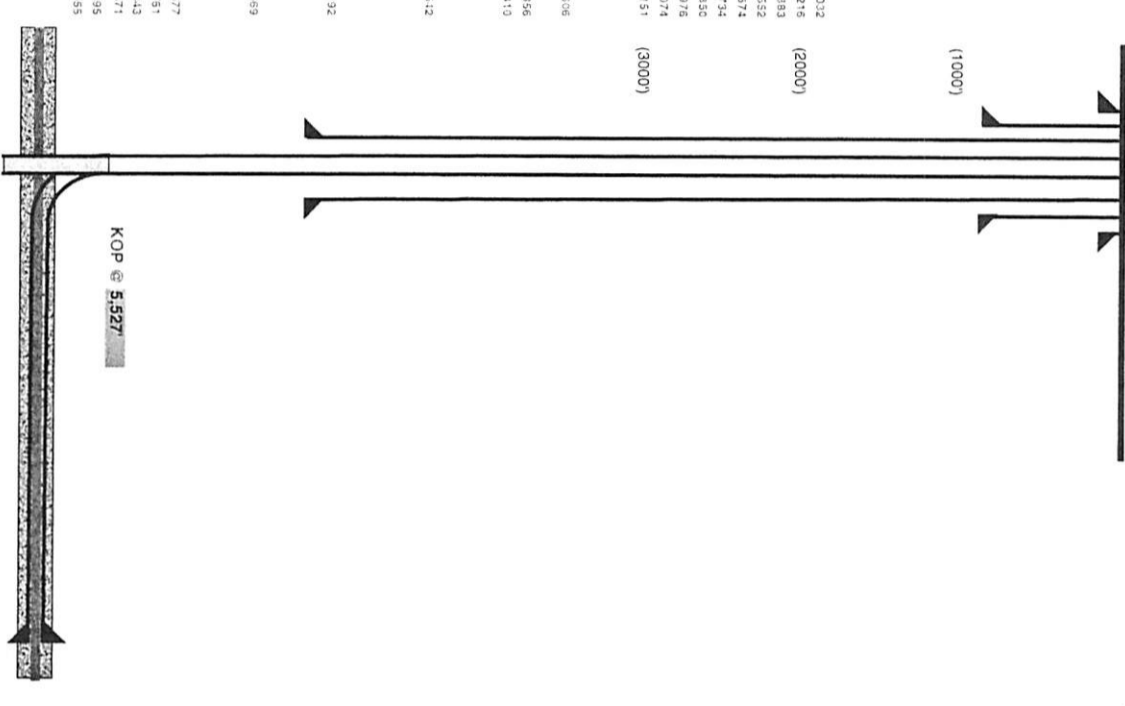


**Well** 514318 (CPT11H3)  
**EOT Production**  
**Center Point**  
**Doddridge**  
**West Virginia**

**Azimuth** 155.87  
**Vertical Section** 7101

TVD Depth (feet)	Formation Tops (TVD)	Formation	Interval	Hole Size (inches)	Casing Type	Casing Size (inches)	WT (ppf)/Grade
250'				24	Conductor	20	
500'							
750'	731	Base Fresh Water		17 1/2	Surface	13 3/8	54#/MC-50
1,000'							
1,250'	1097	Base Red Rock	(1000')				
1,500'							
1,750'							
2,000'		Marion Big Line	(2000')				
2,250'		Big Injun Weir					
2,500'		Gantz Filly foot					
2,750'		Timby foot Gordon					
3,000'		Forth Sand Fth Sand	(3000')				
3,250'							
3,500'		Warren					
3,750'		Speachley Bulltown A					
4,000'							
4,250'							
4,500'		Barford					
4,750'							
5,000'		Benson Int cas pt		12 3/8	Intermediate	9 5/8	40#/MC-50
5,250'							
5,500'		Alexander					
5,750'							
6,000'		Sorpya Madison					
6,250'		Genesee Genesee					
6,500'		Tully Hamilton					
6,750'		Marcellus Top					
7,000'		Marcellus Bottom		8 1/2	Production Casing	5 1/2	20#/P-110
7,250'							

TD Pilot Hole @ 7101  
 100' below top of Onondaga  
 Run Logs. Plug back to KOP at 5527  
 Kick off for horizontal well in Marcellus



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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

**CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name CPT11 OP Code \_\_\_\_\_

Watershed Flint Run of McElroy Creek Quadrangle Center Point 7.5'

Elevation 1111.0 County Doddridge District Grant

Description of anticipated Pit Waste: N/A

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

Will a synthetic liner be used in the pit? N/A If so, what mil.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application
- \_\_\_\_\_  Underground Injection ( UIC Permit Number 0014, 8462, 4037 )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_)
- \_\_\_\_\_  Off Site Disposal (Supply form WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air and water based mud

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

Additives to be used? MILBAR, Viscosifer, Alkalinity Control, Lime, Chloride Salts, Filtration Control, Deflocculant, Lubricant, Detergent, Defoaming, Walnut Shell, X-Cide, SOLTEX Terra Rate

Will closed loop system be used? YES

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

If left in pit and plan to solidify what medium will be used? Cement, lime, n/a

Landfill or offsite name/permit number? See Attached List

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 Department 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 submitting false information, including the possibility of fine or imprisonment.

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

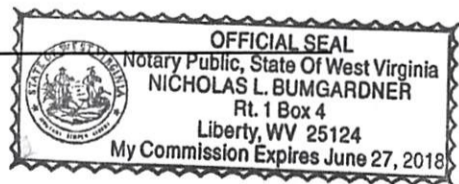
Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 28 day of MARCH, 20 13

Notary Public

My commission expires 6/27/2018



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17-06250

**EQT Production Water plan**  
**Offsite disposals for Marcellus wells**

**CWS TRUCKING INC.**

P.O. Box 391  
Williamstown, WV 26187  
740-516-3586  
Noble County/Noble Township  
Permit # 3390

**BROAD STREET ENERGY LLC**

37 West Broad Street  
Suite 1100  
Columbus, Ohio 43215  
740-516-5381  
Washington County/Belpre Twp.  
Permit # 8462

**LAD LIQUID ASSETS DISPOSAL INC.**

226 Rankin Road  
Washington, PA 15301  
724-350-2760  
724-222-6080  
724-229-7034 fax  
Ohio County/Wheeling  
Permit # USEPA WV 0014

**TRIAD ENERGY**

P.O. Box 430  
Reno, OH 45773  
740-516-6021 Well  
740-374-2940 Reno Office Jennifer  
Nobel County/Jackson Township  
Permit # 4037

**TRI COUNTY WASTE WATER MANAGEMENT, INC.**

1487 Toms Run Road  
Holbrook, PA 15341  
724-627-7178 Plant  
724-499-5647 Office  
Greene County/Waynesburg  
Permit # TC-1009

**KING EXCAVATING CO.**

Advanced Waste Services  
101 River Park Drive  
New Castle, Pa. 16101  
Facility Permit# PAR000029132

**Waste Management - Meadowfill Landfill**

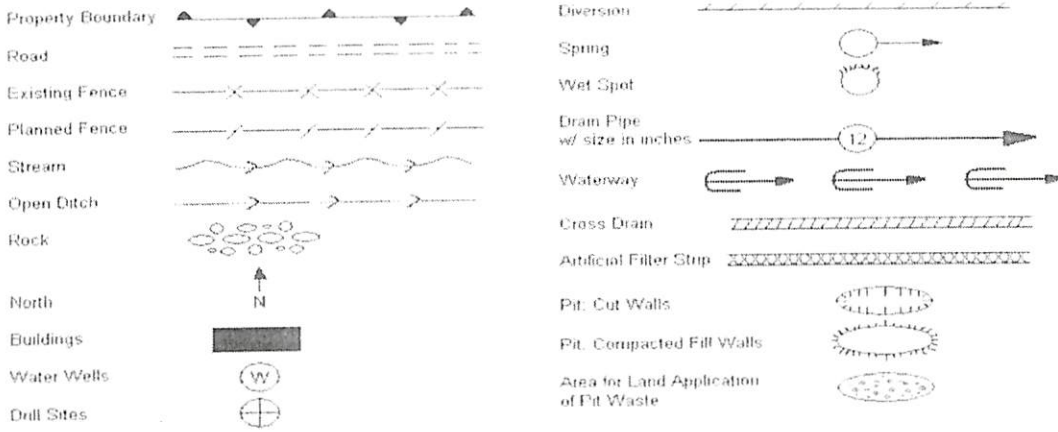
Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**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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Proposed Revegetation Treatment: Acres Disturbed 43.82 Prevegetation pH 7.6  
 Lime 3 Tons/acre or to correct to pH 6.5  
 Fertilizer (10-20-20 or equivalent) 1/3 lbs/acre (500 lbs minimum)  
 Mulch 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Douglas Newton

Comments: preseed & Mulch install ETS to Dep regulations

Title: Oil & Gas inspector

Date: 4-19-2013

Field Reviewed? (  ) Yes (  ) No

Douglas Newton

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## Water Management Plan: Primary Water Sources



WMP- 01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

514318 (CPT11H3)

### Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- Minimum flows required by the Army Corps of Engineers; and
- Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

**DEP is aware that some intake points will be used for multiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interpreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.**

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at [DEP.water.use@wv.gov](mailto:DEP.water.use@wv.gov).

APPROVED JUN 11 2013

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## Source Summary

WMP-01220

API Number:

047-017-06250

Operator:

EQT Production Company

514318 (CPT11H3)

## Stream/River

● Source **Ohio River at Hannibal, OH** Owner: **Richard Potts/Rich Merryman**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
6/1/2013	6/1/2014	10,200,000		39.655883	-80.86678

Regulated Stream? Ohio River Min. Flow Ref. Gauge ID: 9999999 Ohio River Station: Willow Island Lock & Dam

Max. Pump rate (gpm): **1,500** Min. Gauge Reading (cfs): **6,468.00** Min. Passby (cfs)

DEP Comments: Refer to the specified station on the National Weather Service's Ohio River forecast website: <http://www.erh.noaa.gov/ohrfc//flows.shtml>

● Source **Ohio River @ Westbrook Trucking Site** Owner: **Stephen R. and Janet Sue Westbrook**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
6/1/2013	6/1/2014	10,200,000		39.384455	-81.25645

Regulated Stream? Ohio River Min. Flow Ref. Gauge ID: 9999999 Ohio River Station: Willow Island Lock & Dam

Max. Pump rate (gpm): **1,260** Min. Gauge Reading (cfs): **6,468.00** Min. Passby (cfs)

DEP Comments: Refer to the specified station on the National Weather Service's Ohio River forecast website: <http://www.erh.noaa.gov/ohrfc//flows.shtml>

● Source **Ohio River @ Select Energy** Owner: **Select Energy**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
6/1/2013	6/1/2014	10,200,000		39.346473	-81.338727

Regulated Stream? Ohio River Min. Flow Ref. Gauge ID: 9999998 Ohio River Station: Racine Dam

Max. Pump rate (gpm): **1,500** Min. Gauge Reading (cfs): **7,216.00** Min. Passby (cfs)

DEP Comments: Refer to the specified station on the National Weather Service's Ohio River forecast website: <http://www.erh.noaa.gov/ohrfc//flows.shtml>

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● Source **Middle Island Creek @ Travis Truck Pad** Owner: **Michael J. Travis**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
6/1/2013	6/1/2014	10,200,000		39.308545	-80.781102

Regulated Stream? Ref. Gauge ID: **3114500** MIDDLE ISLAND CREEK AT LITTLE, WV

Max. Pump rate (gpm): **4,200** Min. Gauge Reading (cfs): **72.16** Min. Passby (cfs) **28.33**

DEP Comments:

● Source **Middle Island Creek @ Rock Run** Owner: **William Whitehill**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
6/1/2013	6/1/2014	10,200,000		39.298763	-80.760682

Regulated Stream? Ref. Gauge ID: **3114500** MIDDLE ISLAND CREEK AT LITTLE, WV

Max. Pump rate (gpm): **1,680** Min. Gauge Reading (cfs): **62.89** Min. Passby (cfs) **26.43**

DEP Comments:

● Source **McElroy Creek @ Wine Withdrawal Site** Owner: **Elton Wine**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
6/1/2013	6/1/2014	10,200,000		39.39402	-80.70576

Regulated Stream? Ref. Gauge ID: **3114500** MIDDLE ISLAND CREEK AT LITTLE, WV

Max. Pump rate (gpm): **1,260** Min. Gauge Reading (cfs): **72.54** Min. Passby (cfs) **10.66**

DEP Comments:

07/12/2013

Source **Tygart River @ Kuhnes Withdrawal Site A**

Owner: **Charlie & Peggy Kuhnes**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
<b>6/1/2013</b>	<b>6/1/2014</b>	<b>10,200,000</b>		<b>39.35692</b>	<b>-80.05474</b>

Regulated Stream? **Tygart Valley Dam** Ref. Gauge ID: **3057000** **TYGART VALLEY RIVER AT COLFAX, WV**

**Max. Pump rate (gpm): 1,260** **Min. Gauge Reading (cfs): 404.79** **Min. Passby (cfs) 392.62**

DEP Comments:

**07/12/2013**



## Source Detail

WMP- 01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

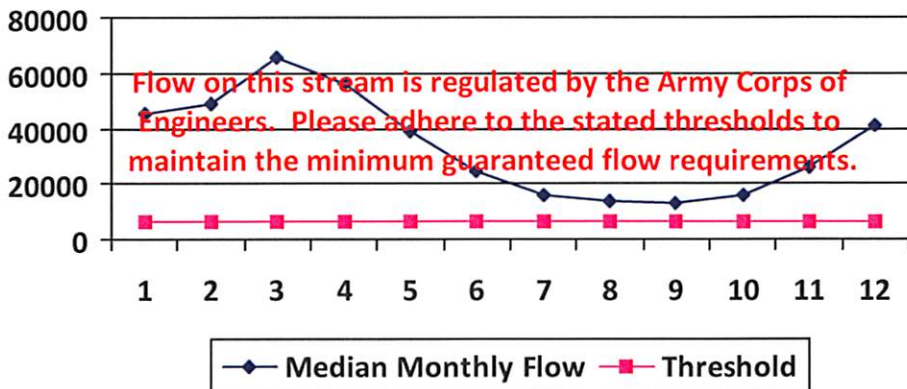
514318 (CPT11H3)

Source ID: 17840	Source Name: Ohio River at Hannibal, OH Richard Potts/Rich Merryman	Source Latitude: 39.655883	Source Longitude: -80.86678
HUC-8 Code: 5030201	Drainage Area (sq. mi.): 25000	County: Wetzel	Anticipated withdrawal start date: 6/1/2013
<input type="checkbox"/> Endangered Species?	<input type="checkbox"/> Mussel Stream?		Anticipated withdrawal end date: 6/1/2014
<input type="checkbox"/> Trout Stream?	<input type="checkbox"/> Tier 3?		Total Volume from Source (gal): 10,200,000
<input checked="" type="checkbox"/> Regulated Stream?	Ohio River Min. Flow		Max. Pump rate (gpm): 1,500
<input checked="" type="checkbox"/> Proximate PSD?	New Martinsville		Max. Simultaneous Trucks: 0
<input checked="" type="checkbox"/> Gauged Stream?			Max. Truck pump rate (gpm): 0

Reference Gaug: 9999999	Ohio River Station: Willow Island Lock & Dam	
Drainage Area (sq. mi.): 25,000.00	Gauge Threshold (cfs): 6468	

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	45,700.00	-	-
2	49,200.00	-	-
3	65,700.00	-	-
4	56,100.00	-	-
5	38,700.00	-	-
6	24,300.00	-	-
7	16,000.00	-	-
8	13,400.00	-	-
9	12,800.00	-	-
10	15,500.00	-	-
11	26,300.00	-	-
12	41,300.00	-	-

### Water Availability Profile



### Water Availability Assessment of Location

Base Threshold (cfs):	-
Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	3.34
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00
<hr/>	
Min. Gauge Reading (cfs):	-
Passby at Location (cfs):	-

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

07/12/2013

## Source Detail

WMP-01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17841 Source Name: Ohio River @ Westbrook Trucking Site  
Stephen R. and Janet Sue Westbrook

Source Latitude: 39.384455

Source Longitude: -81.25645

HUC-8 Code: 5030201

Drainage Area (sq. mi.): 25000 County: Pleasants

Anticipated withdrawal start date: 6/1/2013

Anticipated withdrawal end date: 6/1/2014

Endangered Species?  Mussel Stream?

Total Volume from Source (gal): 10,200,000

Trout Stream?  Tier 3?

Max. Pump rate (gpm): 1,260

Regulated Stream? Ohio River Min. Flow

Max. Simultaneous Trucks: 0

Proximate PSD?

Max. Truck pump rate (gpm): 0

Gauged Stream?

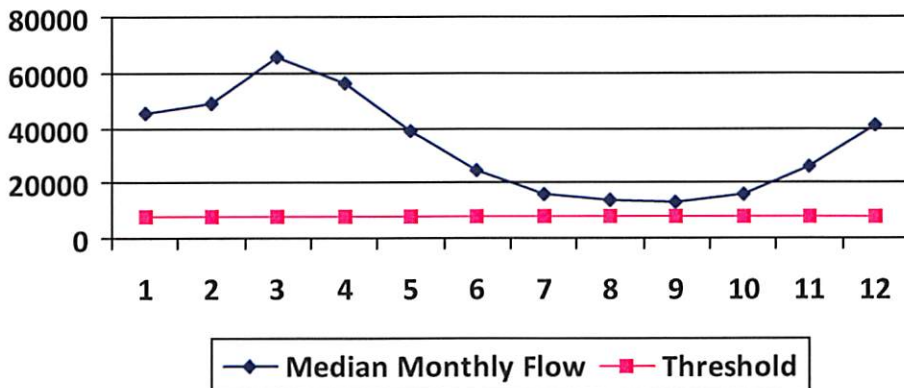
Reference Gaug: 9999999 Ohio River Station: Willow Island Lock & Dam

Drainage Area (sq. mi.): 25,000.00

Gauge Threshold (cfs): 6468

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	45,700.00	-	-
2	49,200.00	-	-
3	65,700.00	-	-
4	56,100.00	-	-
5	38,700.00	-	-
6	24,300.00	-	-
7	16,000.00	-	-
8	13,400.00	-	-
9	12,800.00	-	-
10	15,500.00	-	-
11	26,300.00	-	-
12	41,300.00	-	-

### Water Availability Profile



### Water Availability Assessment of Location

Base Threshold (cfs):	-
Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	2.81
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	1,617.00
Min. Gauge Reading (cfs):	-
Passby at Location (cfs):	-

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

07/12/2013



## Source Detail

WMP- 01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

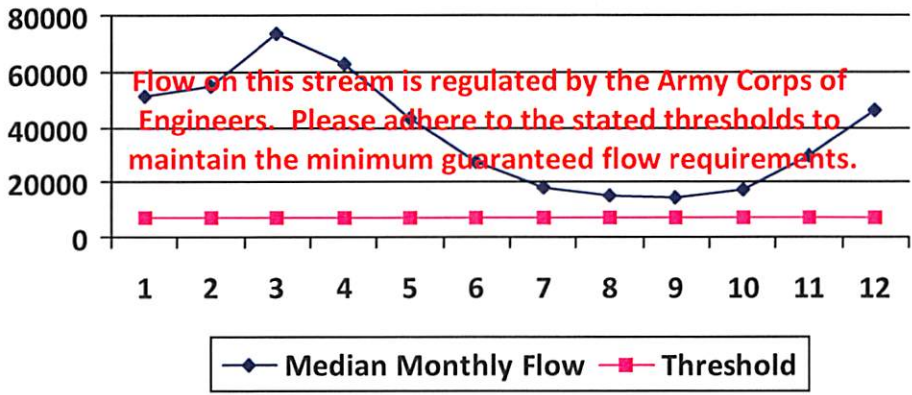
514318 (CPT11H3)

Source ID: 17842	Source Name: Ohio River @ Select Energy Select Energy	Source Latitude: 39.346473	Source Longitude: -81.338727
HUC-8 Code: 5030201	Drainage Area (sq. mi.): 25000	County: Pleasants	Anticipated withdrawal start date: 6/1/2013
<input type="checkbox"/> Endangered Species?	<input checked="" type="checkbox"/> Mussel Stream?		Anticipated withdrawal end date: 6/1/2014
<input type="checkbox"/> Trout Stream?	<input type="checkbox"/> Tier 3?		Total Volume from Source (gal): 10,200,000
<input checked="" type="checkbox"/> Regulated Stream?	Ohio River Min. Flow		Max. Pump rate (gpm): 1,500
<input type="checkbox"/> Proximate PSD?			Max. Simultaneous Trucks: 0
<input checked="" type="checkbox"/> Gauged Stream?			Max. Truck pump rate (gpm): 0

Reference Gaug: 9999998	Ohio River Station: Racine Dam
Drainage Area (sq. mi.): 25,000.00	Gauge Threshold (cfs): 7216

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	50,956.00	-	-
2	54,858.00	-	-
3	73,256.00	-	-
4	62,552.00	-	-
5	43,151.00	-	-
6	27,095.00	-	-
7	17,840.00	-	-
8	14,941.00	-	-
9	14,272.00	-	-
10	17,283.00	-	-
11	29,325.00	-	-
12	46,050.00	-	-

### Water Availability Profile



### Water Availability Assessment of Location

Base Threshold (cfs):	-
Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	3.34
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	-
Passby at Location (cfs):	-

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

07/12/2013



## Source Detail

WMP-01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17843 Source Name: Middle Island Creek @ Travis Truck Pad  
Michael J. Travis

Source Latitude: 39.308545  
Source Longitude: -80.781102

HUC-8 Code: 5030201

Drainage Area (sq. mi.): 122.83 County: Doddridge

Anticipated withdrawal start date: 6/1/2013

Anticipated withdrawal end date: 6/1/2014

Endangered Species?  Mussel Stream?

Total Volume from Source (gal): 10,200,000

Trout Stream?  Tier 3?

Max. Pump rate (gpm): 4,200

Regulated Stream?

Max. Simultaneous Trucks: 10

Proximate PSD? West Union Municipal Water

Max. Truck pump rate (gpm): 420

Gauged Stream?

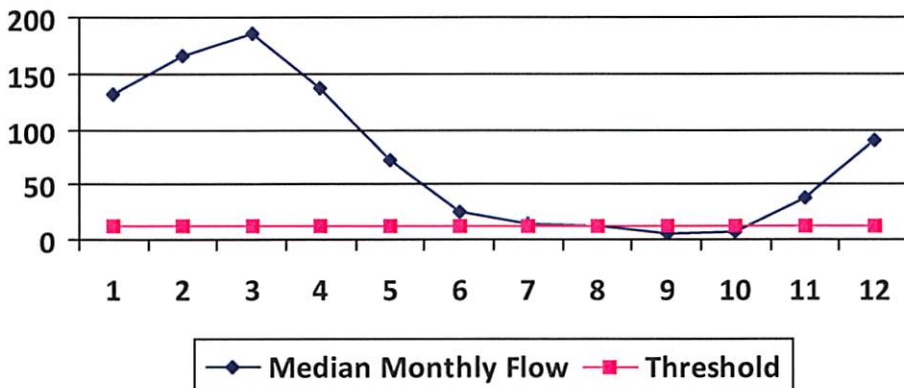
Reference Gaug: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.): 458.00

Gauge Threshold (cfs): 45

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	131.72	30.99	101.10
2	165.69	30.99	135.07
3	185.40	30.99	154.78
4	137.68	30.99	107.05
5	72.63	30.99	42.00
6	25.36	30.99	-5.26
7	14.35	30.99	-16.27
8	11.82	30.99	-18.81
9	6.05	30.99	-24.57
10	7.60	30.99	-23.02
11	37.14	30.99	6.51
12	90.73	30.99	60.11

### Water Availability Profile



### Water Availability Assessment of Location

Base Threshold (cfs): 12.07

Upstream Demand (cfs): 6.55

Downstream Demand (cfs): 13.24

Pump rate (cfs): 9.36

Headwater Safety (cfs): 3.02

Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): 72.16

Passby at Location (cfs): 28.33

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

07/12/2013

## Source Detail

WMP- 01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17844 Source Name: Middle Island Creek @ Rock Run  
William Whitehill Source Latitude: 39.298763  
Source Longitude: -80.760682

HUC-8 Code: 5030201

Drainage Area (sq. mi.): 107.35 County: Doddridge

Anticipated withdrawal start date: 6/1/2013

Anticipated withdrawal end date: 6/1/2014

Endangered Species?  Mussel Stream?

Total Volume from Source (gal): 10,200,000

Trout Stream?

Tier 3?

Max. Pump rate (gpm): 1,680

Regulated Stream?

Max. Simultaneous Trucks: 4

Proximate PSD?

West Union Municipal Water

Max. Truck pump rate (gpm): 420

Gauged Stream?

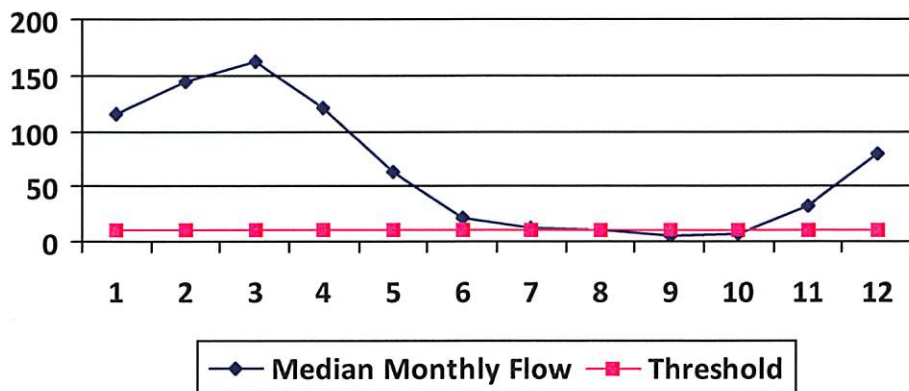
Reference Gaug: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.): 458.00

Gauge Threshold (cfs): 45

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	115.12	19.74	95.58
2	144.81	19.74	125.27
3	162.04	19.74	142.50
4	120.33	19.74	100.79
5	63.47	19.74	43.93
6	22.17	19.74	2.63
7	12.54	19.74	-7.00
8	10.33	19.74	-9.21
9	5.29	19.74	-14.25
10	6.65	19.74	-12.89
11	32.46	19.74	12.91
12	79.30	19.74	59.76

### Water Availability Profile



### Water Availability Assessment of Location

Base Threshold (cfs): 10.55

Upstream Demand (cfs): 2.81

Downstream Demand (cfs): 13.24

Pump rate (cfs): 3.74

Headwater Safety (cfs): 2.64

Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): 62.80

Passby at Location (cfs): 26.42

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

07/12/2013

## Source Detail

WMP- 01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17845 Source Name: McElroy Creek @ Wine Withdrawal Site  
Elton Wine

Source Latitude: 39.39402  
Source Longitude: -80.70576

HUC-8 Code: 5030201

Drainage Area (sq. mi.): 57.19 County: Doddridge

Anticipated withdrawal start date: 6/1/2013

Anticipated withdrawal end date: 6/1/2014

Total Volume from Source (gal): 10,200,000

Max. Pump rate (gpm): 1,260

Max. Simultaneous Trucks: 0

Max. Truck pump rate (gpm): 0

- Endangered Species?
- Trout Stream?
- Regulated Stream?
- Proximate PSD?
- Gauged Stream?
- Mussel Stream?
- Tier 3?

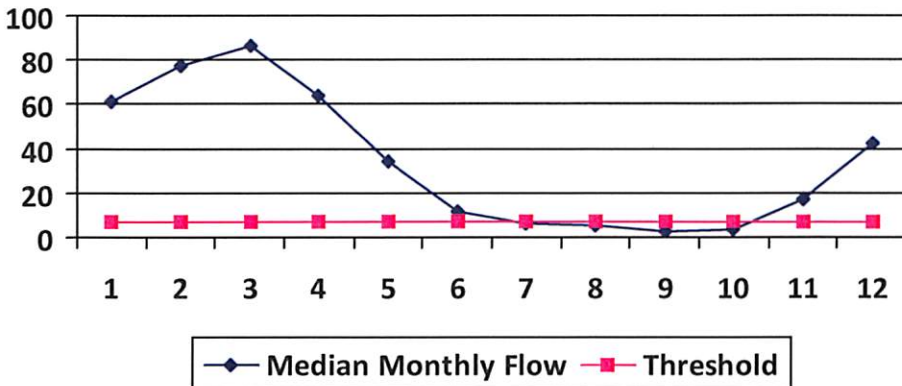
Reference Gaug: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.): 458.00

Gauge Threshold (cfs): 45

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	61.33	13.47	48.08
2	77.15	13.47	63.90
3	86.32	13.47	73.08
4	64.10	13.47	50.86
5	33.82	13.47	20.57
6	11.81	13.47	-1.44
7	6.68	13.47	-6.56
8	5.50	13.47	-7.74
9	2.82	13.47	-10.43
10	3.54	13.47	-9.71
11	17.29	13.47	4.04
12	42.25	13.47	29.00

### Water Availability Profile



### Water Availability Assessment of Location

Base Threshold (cfs): 5.62

Upstream Demand (cfs): 2.23

Downstream Demand (cfs): 2.23

Pump rate (cfs): 2.81

Headwater Safety (cfs): 1.40

Ungauged Stream Safety (cfs): 1.40

Min. Gauge Reading (cfs): 72.54

Passby at Location (cfs): 10.66

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

07/12/2013



## Source Detail

WMP- 01220

API/ID Number: 047-017-06250

Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17846 Source Name Tygart River @ Kuhnes Withdrawal Site A  
Charlie & Peggy Kuhnes

Source Latitude: 39.35692

Source Longitude: -80.05474

HUC-8 Code: 5020001

Drainage Area (sq. mi.): 1302.2 County: Taylor

Anticipated withdrawal start date: 6/1/2013

Anticipated withdrawal end date: 6/1/2014

Endangered Species?  Mussel Stream?

Total Volume from Source (gal): 10,200,000

Trout Stream?  Tier 3?

Max. Pump rate (gpm): 1,260

Regulated Stream? Tygart Valley Dam

Max. Simultaneous Trucks: 0

Proximate PSD?

Max. Truck pump rate (gpm) 0

Gauged Stream?

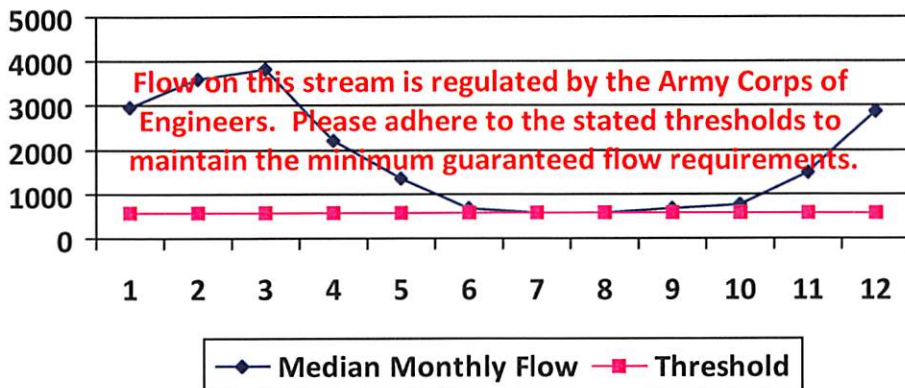
Reference Gaug 3057000 TYGART VALLEY RIVER AT COLFAX, WV

Drainage Area (sq. mi.) 1,363.00

Gauge Threshold (cfs): 624

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	2,968.50	-	-
2	3,584.04	-	-
3	3,829.89	-	-
4	2,188.80	-	-
5	1,373.55	-	-
6	695.24	-	-
7	584.64	-	-
8	593.45	-	-
9	661.90	-	-
10	755.75	-	-
11	1,477.45	-	-
12	2,905.01	-	-

### Water Availability Profile



### Water Availability Assessment of Location

Base Threshold (cfs):	-
Upstream Demand (cfs):	20.95
Downstream Demand (cfs):	11.59
Pump rate (cfs):	2.81
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	-
Passby at Location (cfs):	-

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

07/12/2013



## Water Management Plan: Secondary Water Sources



WMP-01220

API/ID Number 047-017-06250

Operator:

EQT Production Company

514318 (CPT11H3)

### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

### Ground Water

Source ID:	17847	Source Name	Maxson Property Test Well #1		Source start date:	6/1/2013
					Source end date:	6/1/2014
Source Lat:	39.14472	Source Long:	-80.84664	County	Doddridge	
Max. Daily Purchase (gal)		Total Volume from Source (gal):	10,200,000			
DEP Comments:						

07/12/2013

WMP- 01220

API/ID Number 047-017-06250

Operator: EQT Production Company

514318 (CPT11H3)

**Important:**

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

**Lake/Reservoir**

Source ID: 17853	Source Name	Pennsboro Lake	Source start date:	6/1/2013	
			Source end date:	6/1/2014	
Source Lat:	39.281689	Source Long:	-80.925526	County	Ritchie
Max. Daily Purchase (gal)		Total Volume from Source (gal):		10,200,000	

DEP Comments:

**Recycled Frac Water**

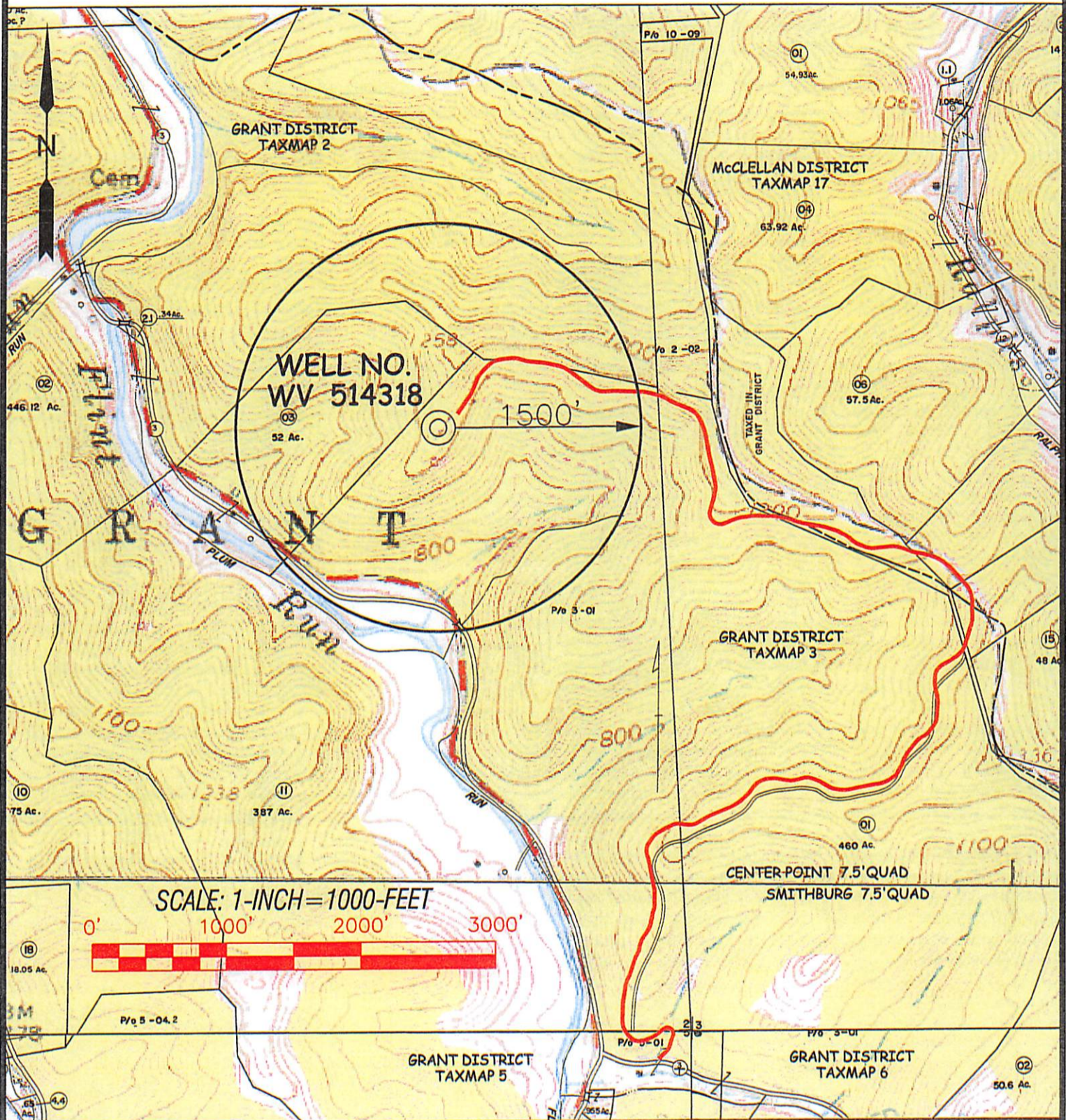
Source ID: 17854	Source Name	Various	Source start date:	6/1/2013
			Source end date:	6/1/2014
Source Lat:		Source Long:		County
Max. Daily Purchase (gal)		Total Volume from Source (gal):		10,200,000

DEP Comments:

07/12/2013



# J.D. McREYNOLDS LEASE WELL NO. WV 514318



SCALE: 1-INCH=1000-FEET



**Professional Energy Consultants**  
A DIVISION OF EARTH LAND SURVEYING

**SLS**  
SURVEYING & LAND SURVEYING

222 West Main St.  
P.O. Box 150  
Clarksburg, WV 26301  
(304) 482-5834

ENGINEERS  
ENVIRONMENTAL

18288 Drive Bottom Road  
Shawsville, OH 43087  
(614) 571-5911

HONESTY. INTEGRITY. QUALITY.

DRAWN BY: K.D.W. FILE NO.: 7749 DATE: 03/13/13 CADD FILE: 7746WS514318.dwg

TOPO SECTION OF:  
CENTER POINT, WV 7.5' QUAD.

COUNTY	DISTRICT	TAX MAP-PARCEL NO.
DODDRIDGE	GRANT	3 - 01

OPERATOR:  
EQT PRODUCTION COMPANY  
115 PROFESSIONAL PLACE  
P.O. BOX 280  
BRIDGEPORT, WV 26330

RECEIVED  
WV Department of Environmental Protection  
01 2013

07/12/2013



# EQT PRODUCTION COMPANY J.D. McREYNOLDS LEASE 1500± ACRES WELL NO. WV 514318

**WELL NO. WV 514318**  
STATE PLANE COORDINATES  
NORTH ZONE (NAD '27)  
N. 324,444.0  
E. 1,654,140.6

LAT=(N) 39.384324  
LONG=(W) 80.723643

UTM (NAD'83)(METERS)  
N. 4,359,472.5  
E. 523,815.3

**LANDING POINT**  
WELL NO. WV 514318  
STATE PLANE COORDINATES  
NORTH ZONE (NAD '27)  
N. 323,591.3  
E. 1,653,247.2

LAT=(N) 39.381949  
LONG=(W) 80.726763

UTM (NAD'83)(METERS)  
N. 4,359,208.1  
E. 523,547.4

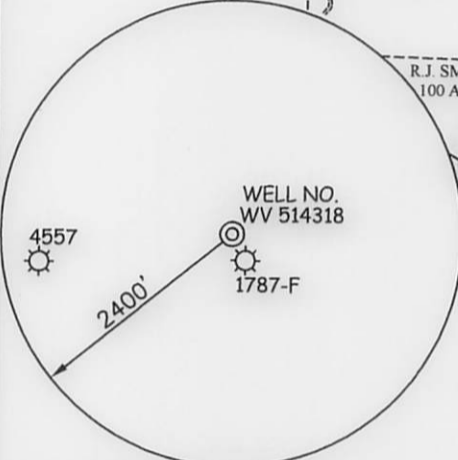
**BOTTOM HOLE**  
WELL NO. WV 514318  
STATE PLANE COORDINATES  
NORTH ZONE (NAD '27)  
N. 317,375.2  
E. 1,654,812.0

LAT=(N) 39.364943  
LONG=(W) 80.720928

UTM (NAD'83)(METERS)  
N. 4,357,322.4  
E. 524,055.8

NORTH

11,781'



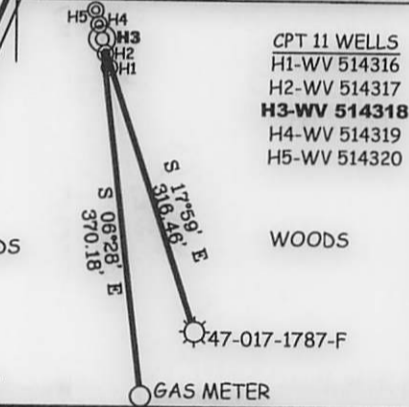
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



- NOTES ON SURVEY**
1. TIES TO WELLS, CORNERS, AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
  2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 280 PAGE 695, DEED BOOK 223 PAGE 430, DEED BOOK 282 PAGE 406 & DEED BOOK 175 PAGE 633.
  3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JULY, 2012.
  4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK).

## REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE MARCH 15, 20 13  
OPERATORS WELL NO. WV 514318  
API WELL NO. 47-17-06250  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7749P514318R  
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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 1,130' (GROUND) 1,111 (PROPOSED) WATERSHED FLINT RUN OF McELROY CREEK  
DISTRICT GRANT COUNTY DODDRIDGE QUADRANGLE CENTER POINT 7.5'

SURFACE OWNER JORDAN FAMILY PARTNERSHIP ACREAGE 460±  
ROYALTY OWNER J.D. McREYNOLDS HEIRS/ASSIGNS ACREAGE 1500±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

07/12/2013