



Engineers and Environmental Consultants

7012 MacCorkle Avenue, SE, Charleston, WV 25304 • (304)342-1400 • FAX (304)343-9031; www.potesta.com

13-087

November 5, 2013

FILED
2013 NOV -6 PM 12:44
BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

Mr. Dan Wellings
Doddridge County Floodplain Coordinator
Doddridge County Commission
118 East Court Street
West Union, West Virginia 26456

RE: Floodplain Permit Application
EQT Production Company
EQT WUE 6 Well Site
Doddridge County, West Virginia
POTESTA Project No. 0101-11-0147-603

Dear Mr. Wellings:

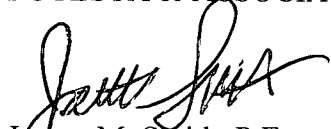
Potesta & Associates, Inc. (POTESTA) is pleased to submit this cover letter with the associated Floodplain Development Permit Application for the proposed West Union Well 6 Well Site. The proposed project will consist of construction of a well pad and construction of associated access road. Based on information presented on the site FIRM, this project is not located within FEMA Flood Zone. No fill shall be placed within the floodplain limits for this project.

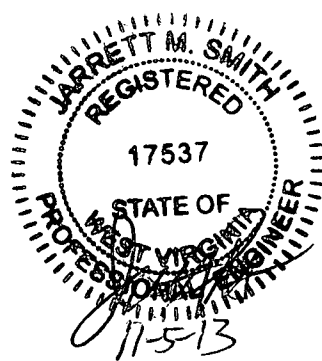
Included with this letter is the permit application and site location map.

If you have any questions, please feel free to contact me at (304) 342-1400 or jmsmith@potesta.com, or Megan Landfried (EQT) at (304) 848-0061.

Sincerely,

POTESTA & ASSOCIATES, INC.


Jarrett M. Smith, P.E.
Staff Engineer II



JMS/clr

Enclosures

c: Ms. Megan Landfried – EQT

POTESTA & ASSOCIATES, INC.

Charleston, West Virginia ◦ Morgantown, West Virginia ◦ Winchester, Virginia

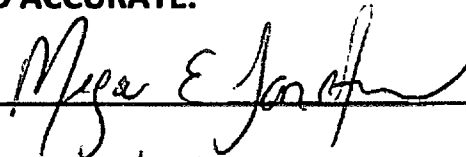
#13-087
WUE-6 Well Site

DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. **I, THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.**

APPLICANT'S SIGNATURE _____



DATE _____

10/30/13

SECTION 2: PROPOSE DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME: EQT Production Company

ADDRESS: 115 Professional Place, Bridgeport, WV 26330

TELEPHONE NUMBER: 304-848-0061

BUILDER'S NAME: EQT Production Company
ADDRESS: 115 Professional Place, Bridgeport, WV 26330
TELEPHONE NUMBER: 304-848-0061

ENGINEER'S NAME: POTESTA and Associates, Inc
ADDRESS: 7012 McCorkle Ave, SE Charleston, WV 25304
TELEPHONE NUMBER: 304-342-1400

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler & Key Oil Co.,

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler, 2567
Spring Hill Rd., Staunton, Virginia, 24401,

Key Oil Company, a West Virginia Corporation, 22 Garton Plaza, Weston, WV 26452

DISTRICT: West Union

DATE/FROM WHOM PROPERTY PURCHASED: Franklin L. Butler & Key Oil Company; June 30th,
2003 from; Ellen L. Barnes

LAND BOOK DESCRIPTION: BLUESTONE 86.09 AC

DEED BOOK REFERENCE: Deed Book 256 Page 324

TAX MAP REFERENCE: Tax Map 12 Parcel 71.1

EXISTING BUILDINGS/USES OF PROPERTY: Hunting Cabin and metal building

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT
PROPERTY N/A

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE
SUBJECT PROPERTY N/A

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler & Key Oil Co.,
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler, 2567
Spring Hill Rd., Staunton, Virginia, 24401,
Key Oil Company, a West Virginia Corporation, 22 Garton Plaza, Weston, WV 26452
DISTRICT: West Union
DATE/FROM WHOM PROPERTY PURCHASED: Franklin L. Butler & Key Oil Company; July 20th,
1994 from; Patrick D. Deem & Louis E. Enderle, Jr.
LAND BOOK DESCRIPTION: 15ac 80 p, Middle Island Creek
DEED BOOK REFERENCE: Deed Book 259 Page 275
TAX MAP REFERENCE: Tax Map 12 Parcel 64.1
EXISTING BUILDINGS/USES OF PROPERTY: N/A
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT
PROPERTY N/A
ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE
SUBJECT PROPERTY N/A

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Phillis Marie Steele, executrix
of the William P. McCutchan Estate,
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Phillis Marie Steele,
Executrix of the estate of William Paul McCutchan, 307 Wood Street, West Union, WV 26456
DISTRICT: West Union
DATE/FROM WHOM PROPERTY PURCHASED: Leeman Maxwell III & Edna Maxwell, his wife
LAND BOOK DESCRIPTION: Bluestone MH 123.38ac
DEED BOOK REFERENCE: Deed Book 123 Page 72
TAX MAP REFERENCE: Tax Map 16 Parcel 1
EXISTING BUILDINGS/USES OF PROPERTY: Trailer – camp, storage container, bathhouse, trailer-
storage, picnic shelter
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT
PROPERTY N/A
ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE
SUBJECT PROPERTY N/A

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Charles Wellings, Jr & Barbara L. Wellings

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Charles Wellings Jr. and Barbara L. Wellings, HC 68 Box 3, West Union, WV 26456

DISTRICT: West Union

DATE/FROM WHOM PROPERTY PURCHASED: Charles Wellings, Jr.

LAND BOOK DESCRIPTION: BLUESTONE 650.84 AC (SURFACE)

DEED BOOK REFERENCE: Deed Book 240 Page 545

TAX MAP REFERENCE: Tax Map 16 Parcel 16

EXISTING BUILDINGS/USES OF PROPERTY: house – residence, 5 barns/storage buildings

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Charles Wellings Jr.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Charles Wellings Jr., HC 68 Box 3, West Union, WV 26456

To avoid delay in processing the application, please provide enough information to easily identify the project location. Please see the attached map. No fill will be placed in or removed from any floodplain area for this Project.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u>	<u>STRUCTURAL TYPE</u>
<input checked="" type="checkbox"/> New Structure	<input type="checkbox"/> Residential (1 – 4 Family)
<input type="checkbox"/> Addition	<input type="checkbox"/> Residential (more than 4 Family)
<input type="checkbox"/> Alteration	<input checked="" type="checkbox"/> Non-residential (floodproofing)
<input type="checkbox"/> Relocation	<input type="checkbox"/> Combined Use (res. & com.)
<input type="checkbox"/> Demolition	<input type="checkbox"/> Replacement
<input type="checkbox"/> Manufactured/Mobil Home	

B. OTHER DEVELOPMENT ACTIVITIES:

- Fill Mining Drilling Pipelining
 - Grading
 - Excavation (except for STRUCTURAL DEVELOPMENT checked above)
 - Watercourse Altercation (including dredging and channel modification)
 - Drainage Improvements (including culvert work)
 - Road, Street, or Bridge Construction
 - Subdivision (including new expansion)
 - Individual Water or Sewer System
 - Other (please specify)
-

C. STANDARD SITE PLAN OR SKETCH

1. **SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED.**
2. **IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:**
SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.
3. **SIGN AND DATE THE SKETCH.**

**ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT
IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED
CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$1,475,000.00**

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

- 1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA
OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED
ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM)
WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED
BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED).**

NAME: LONE PINE OPERATING INC
ADDRESS: RT 5 BOX 436
SALEM, WV 26426

NAME: I.L. Morris
ADDRESS: P.O. Box 397
Glenville, WV 26351

NAME: Winnie J. Hackely, etal
ADDRESS: 517 NORTH LAKE DR
MONROE, NC 28112

NAME: Sue Ann Spiker
ADDRESS: 166 Linden Lane
Jane Lew, WV 26378

NAME: Karen M. Ireland Family Limited Pa
ADDRESS: 342 Ireland Road
Pullman, WV 26421

NAME: Carolyn E. Farr Irrevocable Trust
ADDRESS: P.O. Box 1126
Bridgeport, WV 26330

NAME: Franklin L. Butler
ADDRESS: 2567 Spring Hill Road
Staunton, VA 24401

NAME: Key Oil Company
ADDRESS: 22 Garton Plaza
Weston, WV 26452

NAME: James Terrance Robinson
ADDRESS: 41 Escargot Xing
Harrisville, WV 26362

NAME: Paul Eugene Cumpston
ADDRESS: 344 Blair Ave
Mineral Wells, WV 26150

NAME: Donivan L. Cumpston
ADDRESS: Rt. 1 Box 419
Greenwood, WV 26415

NAME: Julia Ann Robinson Rogers
ADDRESS: 399 McDougal Drive
Pennsboro, WV 26415

NAME: Kathryn E. Robinson Summers
ADDRESS: 142 Pine Drive
Pennsboro, WV 26415

NAME: Dodridge Count 4-H Association
ADDRESS: Rt. 2 Box 98
Salem, WV 26426

NAME: E Properties % David Bowyer
ADDRESS: P.O. Box 202
West Union, WV 26456

NAME: Ruth M. Davies Pierce, %Tom Davies
ADDRESS: 1104 Greenmont Circle
Vienna, WV 26105

1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY.

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.
- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): Megan E. Landfried

SIGNATURE: Megan E. Landfried DATE: 10/30/13

After completing SECTION 2, APPLICANT should submit form to Floodplain Administrator/Manager or his/her representative for review.

SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: 120 & 140
Dated: 10/04/2011

Is **NOT** located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and **NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED**).

Is located in Special Flood Hazard Area.
FIRM zone designation _____
100-Year flood elevation is: _____ NGVD (MSL)

Unavailable

The proposed development is located in a floodway.
FBFM Panel No. _____ Dated _____

See section 4 for additional instructions.

SIGNED _____ **DATE** _____

SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by Floodplain Administrator/Manager or his/her representative)

The applicant must submit the documents checked below before the application can be processed.

- A plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.

- Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proffing of utilities located below the first floor and details of enclosures below the first floor. Also _____

- Subdivision or other development plans (if the subdivision or development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).

- Plans showing the extent of watercourse relocation and/or landform alterations.

- Top of new fill elevation _____ Ft. NGVD (MSL).
For floodproofing structures applicant must attach certification from registered engineer or architect.

- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.

- Manufactured homes located in a floodplain area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).

- Other:

SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or his/her representative)

I have determined that the proposed activity **(type is or is not)** in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED _____ DATE _____

If the Floodplain Administrator/Manager found that the above was not in conformance with the provisions of the Doddridge County Floodplain Ordinance and/or denied that application, the applicant may complete an appealing process below.

APPEALS: Appealed to the County Commission of Doddridge County? Yes No
Hearing Date: _____
County Commission Decision - Approved Yes No

CONDITIONS: _____

SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued).

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

- 1 Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is _____ FT. NGVD (MSL)

2 Actual (As Built) elevation of floodproofing is _____ FT. NGVD (MSL)

Note: Any work performed prior to submittal of the above information is at risk of the applicant.

SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

INSPECTIONS:

DATE: _____ BY: _____
DEFICIENCIES ? Y/N

COMMENTS _____

SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative).

Certificate of Compliance issued: DATE: _____ BY: _____

**CERTIFICATE OF COMPLIANCE
FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA
(OWNER MUST RETAIN)**

PERMIT NUMBER: 13-087

PERMIT DATE: 11-19-13

PURPOSE -

CONSTRUCTION LOCATION: _____

OWNER'S ADDRESS: _____

THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN ADMINISTRATOR/MANAGER OR HIS/HER AGENT.

COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF DODDRIDGE COUNTY ON MAY 21, 2013.

SIGNED *Ralph Lander* **DATE** 11-19-2013

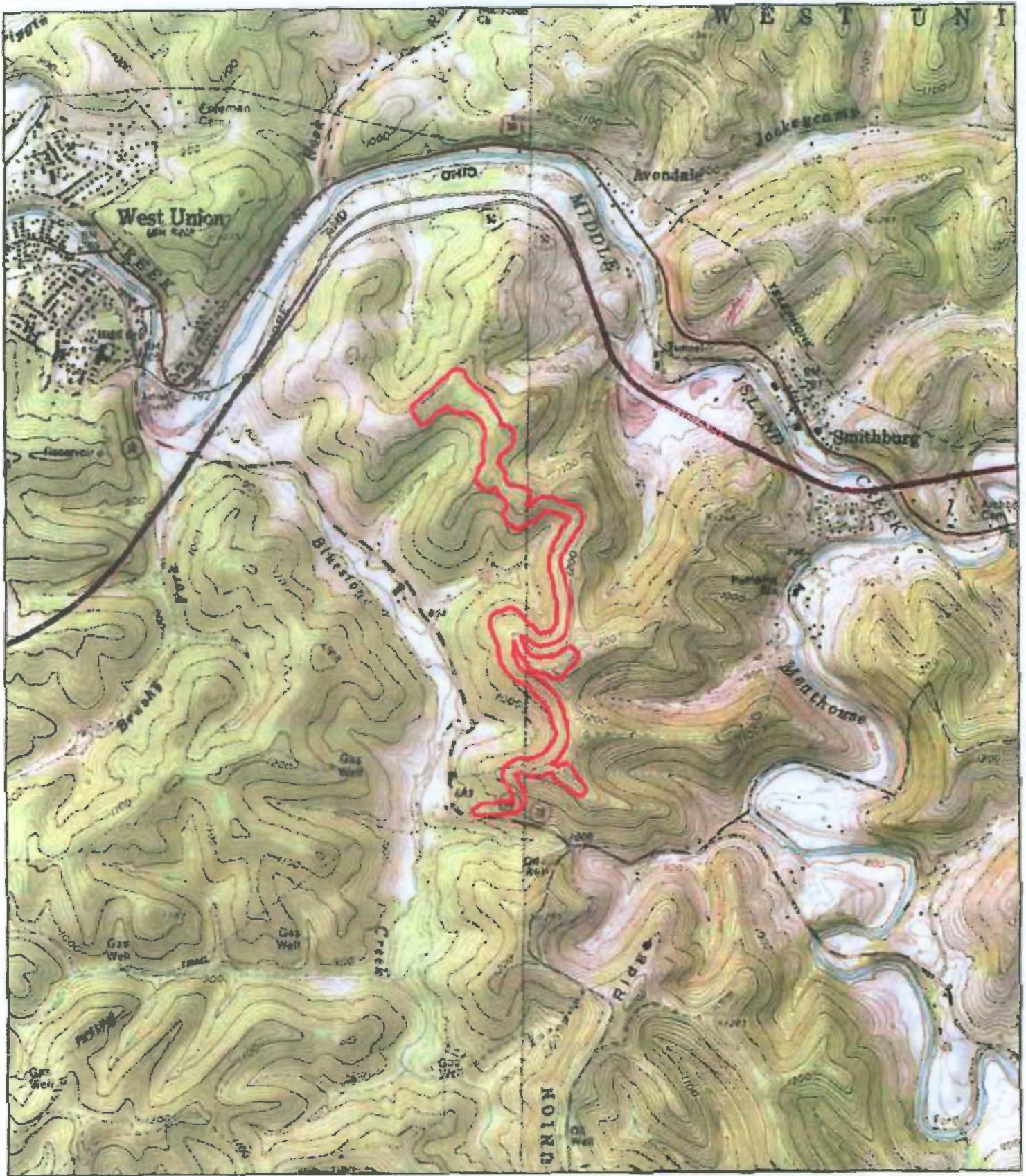
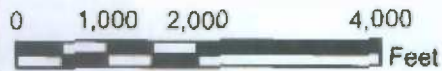


FIGURE 1
SITE LOCATION MAP
WELL SITE WEU 6
EQT
DODDRIDGE COUNTY,
WEST VIRGINIA

DATE: JULY 8, 2013
 G:\Projects\2011\11-0147 EQT Well Site\Map Documents
 WFLUP\WEU6 FIG 1.mxd

 Area of Interest



2012-2013 FISCAL YEAR

Permit #:

13-087

FLOOD PLAIN PERMIT INFORMATION

APPLICANT:

EQT

115 PROFESSIONAL PLACE

BRIDGEPORT, WV 26330

MEGAN LANDFRIED

CONTACT INFORMATION:

Work Num

Cell Num

email Add

LOCATION:

PLACE OWNER: F. BUTLER & KEY OIL, WILLIAM MCCUTCHAN

C. WELLINGS, JR.

D/B: 256/324,259/275,123/72,240/16

T/M: 12/71.1, 12/64.1, 16/1, 16/16

RETURN MAILING ADDRESS:

DATE FILED:

11/6/2013

IS IT IN THE FLOOD PLAIN?:

NO

PERMIT APPROVED:

PUBLICATION DATES:

CERTIFIED NOTICES:	Date Sent:	Notice Undeliverable:	Signed notice Returned:
1)			
2)			
3)			
4)			
5)			
6)			

DATE SERVED BY SHERIFF:

CERTIFIED NOTICES:	Date Sent:	Notice Undeliverable:	Signed notice Returned:	DATE SERVED BY SHERIFF:
---------------------------	-----------------------	----------------------------------	------------------------------------	------------------------------------



Edwin Wriston <doddridgecountyfpm@gmail.com>

EQT site on Middle Island Creek

1 message

m b <miri_beram@yahoo.com>

Mon, Apr 27, 2015 at 11:45 AM

Reply-To: m b <miri_beram@yahoo.com>

To: Dodd Floodplain Manager <doddridgecountyfpm@gmail.com>

Cc: Gregory Robinson <wvrobby@hughes.net>, Ralph Sandora <ralphsandora@gmail.com>, "ronleetravis@gmail.com" <ronleetravis@gmail.com>, "bshaw@court.state.wv.us" <bshaw@court.state.wv.us>, Pat Heaster <patheaster@aol.com>

Mr. Wriston,

Can you please tell me if there is a floodplain permit issued to EQT for a site that is approximately 1200 feet upstream from where Rock Run Rd & Smithton Rd. intersect? Please tell me the permit number.

This is a water withdrawal site and there is equipment in the floodplain. The map below from the WV Flood Tool shows the approximate location.


No evidence of Floodplain permit signage was apparent on 4-18-2015. There is signage posted that was issued by WV DEP for water withdrawal.

I would also like to know if additional permits were obtained from state & federal agencies.

This site has been in operation for awhile. To visit the site, a person has to walk upstream along the rail trail from the football field & the Water Treatment plant or downstream from the Smithton Depot.

Please acknowledge receipt of this email.

Respectfully,
Mirijana Beram

 Inline image

4 attachments

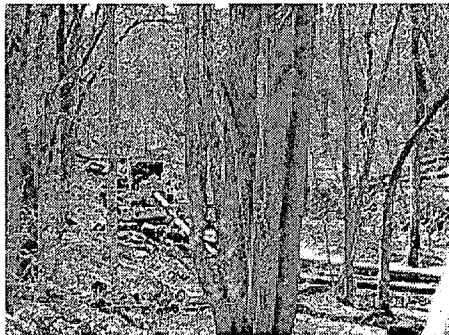


P4185875.JPG
3088K

P4185880.JPG
3067K



P4185885.JPG
2764K



P4185890.JPG
3200K



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

October 21, 2014

WELL WORK PERMIT

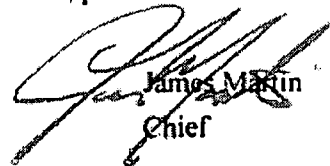
Horizontal 6A Well

This permit, API Well Number: 47-1706572, 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: 513342
Farm Name: BUTLER, FRANKLIN L. & KEY O
API Well Number: 47-1706572
Permit Type: Horizontal 6A Well
Date Issued: 10/21/2014

Promoting a healthy environment.

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

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. 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.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. 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.
4. 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.
5. 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.
6. 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.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operator: EQT Production Company Operator ID 017 County 8 District 671 Quadrangle

2) Operator's Well Number: 513342 Well Pad Name: WEU6

3) Farm Name/Surface Owner: Franklin Butler & Key Oil Co. Public Road Access: State Route 18

4) Elevation, current ground: 1260' Elevation, proposed post-construction: 1260'

5) Well Type: (a) Gas Oil Underground Storage
Other _____
(b) If Gas: Shallow Deep
Horizontal

6) Existing Pad? Yes or No: yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):
Target formation is Marcellus at a depth of each with the expected thickness to be 57 feet and anticipated target pressure of 4651 PSI

8) Proposed Total Vertical Depth: 6,803

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13,281

11) Proposed Horizontal Leg Length: 4,530

12) Approximate Fresh Water Strata Depths: 353, 485, 508, 907, 1031

13) Method to Determine Fresh Water Depth: By offset wells

14) Approximate Saltwater Depths: None reported

15) Approximate Coal Seam Depths: 188

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

17) Does proposed well location contain coal seams directly overlying or adjacent to an active mine?
(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

DCN
9-14-2014

RECEIVED
Office of Oil and Gas
AUG 19 2014
WV Department of
Environmental Protection

WW-6B
(3/13)

CASING AND TUBING PROGRAM

1B)

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE for Drilling	INTERVALS Left in Well	CEMENT: Fill-up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	C.T.S.
Fresh Water	13 3/8	New	MC-50	54	1,131	1,131	C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	MC-50	40	3,100	3,100	C.T.S.
Production	5 1/2	New	P-110	20	13,281	13,281	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' into then TD
Liners							

*DLW
9-14-2014*

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./ft)
Conductor	20	24	0.375	-	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	* See Note 2	1.21
Coal	-	-	-	-	-	-
Intermediate	9 5/8	12 3/8	0.395	3,590	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.88
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.
 Note 2: Reference Variance 2014-17.

RECEIVED
 Office of Oil and Gas
 AUG 19 2014
 WV Department of
 Environmental Protection

4701706572



August 6, 2014

Mr. Gene Smith
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: WEU6 (513342, 513344)

Dear Mr. Smith,

EQT is requesting the 13 3/8" surface casing to be set at approximately 1131' KB (100' below freshwater). 9 5/8" intermediate casing will be set 29' below the Bayard formation at 3100' KB based on casing points of existing wells (47-017-06323 & 47-017-06325) on the pad.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in black ink, appearing to read 'Vicki Roark', written in a cursive style.

Vicki Roark
Permitting Supervisor-WV

Enc.

(3/13)

18) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an approximate depth of 3399'. Then
kick off the horizontal leg into the Marcellus using a slick water frac.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from
freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid,
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum
anticipated treating pressures are expected to average approximately 4500 psi, maximum anticipated treating rates are expected to average
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc. (acres): No additional disturbance

22) Area to be disturbed for well pad only, less access road (acres): No additional disturbance

23) 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 bit csg shoe

24) Describe all cement additives associated with each cement type. Surface (Type I Cement): 0.3% Calcium Chloride
Used to speed the setting of cement slurries.
0.4% Bake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.
Intermediate (Type I Cement): 0.3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement
slurries. 0.4% Bake. 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 I Cement): 0.2-0.7% Uginosulfonate (Retarder). Lengthens thickening time.
0.3% CFR (dispersant). Makes cement easier to mix.
Tail (Type II Cement): 0.25-0.40% Uginosulfonate (Retarder). Lengthens thickening time.
0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.
60 % Calcium Carbonate. Acid solubility.
0.4-0.6% Haled (fluid loss). Reduces amount of water lost to formation.

25) 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 net plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.
Perform a cleanup cycle by pumping 3-6 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.

[Faint, illegible stamp or signature]

4701706572



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 266-6100
(304) 226-6222 fax

Lisa Luy Turville, Director
Amy C. Buffron, Cabinet Secretary
dep@wv.gov

March 18, 2014

Nabors Completion & Production Services Company
1380 Route 286 Hwy E #121
Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

- Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Floke-Loss Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment

Received

Office of Oil and Gas
West Virginia Department of Environmental Protection

4701706572



west virginia department of environmental protection

Office of Oil and Gas
601 3rd Street, SE
Charleston, WV 25304
(204) 828-9430
(204) 828-0433 fax

Earl Ray Tremblie, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM) ORDER NO. 2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)
AND 35 CSR § 8-3.2.b. 4/3/5/8 OF THE)
THE OPERATIONAL)
REGULATIONS OF CEMENTING OIL)
AND GAS WELLS)**

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and seal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "I" Cement
 - 5.20 % Water
- 2.) Laboratory testing results indicate that the blend listed in Fact No. 1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

Promoting a healthy environment.

Received

Office of Oil and Gas
WV Dept. of Environmental Protection

4701706572

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.3 and 35 CSR § 8-9.2.b.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No. 1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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


James Martin, Chief
Office of Oil and Gas

Received

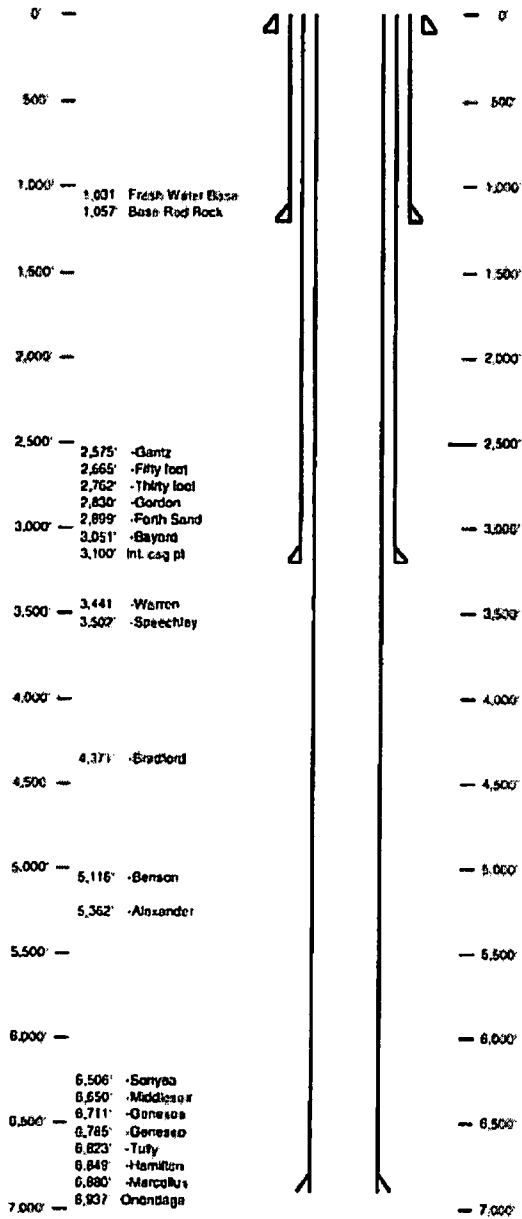
Office of Oil and Gas
WV Dept. of Environmental Protection

Well Schematic
EOT Production

4701706572

Well Name: [REDACTED]
County: [REDACTED]
State: [REDACTED]
Well Type: [REDACTED]

Division No: [REDACTED]
Target: [REDACTED]
Prospect: [REDACTED]
Altitude: [REDACTED]
Vertical Section: [REDACTED]



[Handwritten signature and notes]

4701706572

WW-9
(5/13)

Page _____ of _____
API No. 47 - 017 - _____ 0
Operator's Well No. _____ 513342

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name EQT Production Co. OP Code _____

Watershed (HUC10) Bluestone Creek & Middle Island Creek Quadrangle West Union 7.5'

Elevation 1260' County Doddridge District West Union

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

Will a pit be used? Yes: _____ No: X

If so please describe anticipated pit waste: _____
Will a synthetic liner be used in the pit? Yes _____ No X If so, what ml.? 60

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 _____)

*DCW
4-14-2014*

Will closed loop system be used? Yes. The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____
Air is used to drill the top-hole sections of the wellbore.
Surface, intermediate, and pilot hole sections, water based
mud is used to drill the curve and lateral.

If oil based, what type? Synthetic, petroleum, etc _____
Additives to be used in drilling medium? MILBAR, Viscositor, Alkalinity Control, Lime, Chloride Salts, Rate Filtration Control, Deflocculant, Lubricant, Detergent, Defoaming, Walnut Shell, X-Cide, SOLTEX Terra. Of the listed chemicals the following are generally used when drilling on air: lubricant, detergent, defoaming. Water based fluids use the following chemicals: MILBAR, viscositor, alkalinity control, lime, chloride salts, rate filtration control, deflocculant, lubricant, detergent, defoaming, walnut shell, x-cide, SOLTEX terra

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, sawdust) 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 7 day of August, 20 14

Notary Public
My commission expires 7/27/2018

RECEIVED
OFFICIAL SEAL
State of West Virginia
NOTARY PUBLIC
Nicholas L. Bumpardner
Notary No. K 92014
Liberty, WV 25124
My Commission Expires July 27, 2018
WV Department of
Environmental Protection

WW-9

4701706572

Operator's Well No. 513342

Proposed Revegetation Treatment: Acres Disturbed no additional Prevegetation pH 6.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer Amount 1/3 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
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 Neuman

Comments: Maintain ETS to Wv Dep regulations

Title: Oil & Gas Inspector Date: 9-14-2014

Field Reviewed? (/) Yes () No

RECEIVED
Office of Oil and Gas

AUG 19 2014

WV Department of
Environmental Protection

4701706572

**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 # 9390

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
724-827-7178 Plant
724-489-5847 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

Received

Office of Oil and Gas
WV Dept. of Environmental Protection

4701706572



Where energy meets innovation.™

Site Specific Safety Plan

EQT WEU 6 Pad

West Union
Doddridge County, WV

For Wells:

513342 513344 _____

Date Prepared:

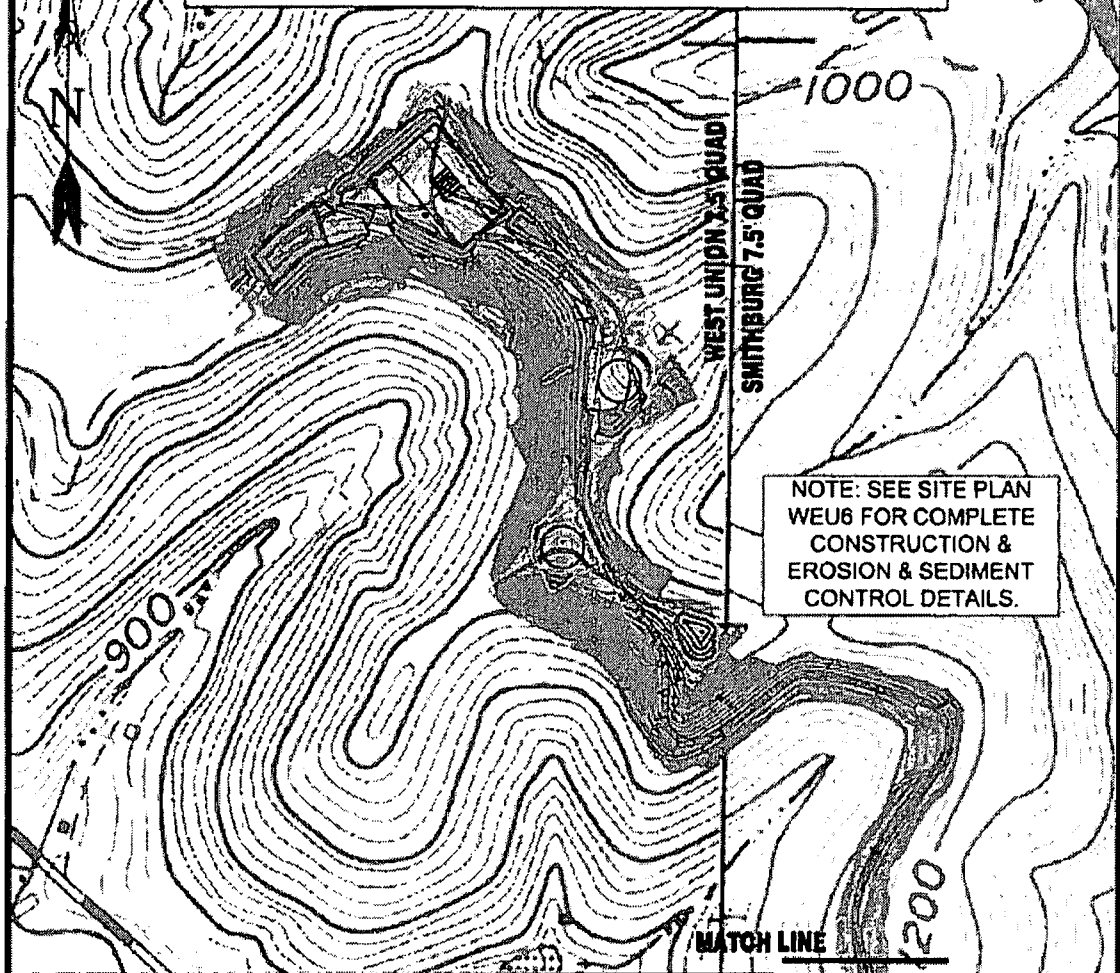
July 31, 2014

[Signature]
EQT Production
[Signature]
Title Permitting Supervisor
8-7-14
Date

[Signature]
WV Oil and Gas Inspector
Title _____
9-14-2014
Date

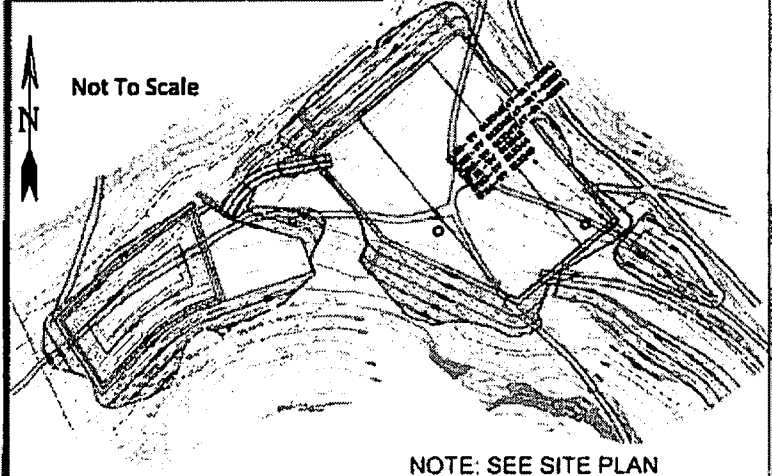
RECEIVED
Office of Oil and Gas
AUG 19 2014
WV Department of
Environmental Protection

LEWIS MAXWELL LEASE WEU6 WELLS
513342, 513343(47-017-6323), 513344, 513345,
513346(47-017-6324) & 513347(47-017-6325)



NOTE: SEE SITE PLAN WEU6 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

Detail Sketch for Proposed WEU6 Well Numbers WV 513342 & WV 513344

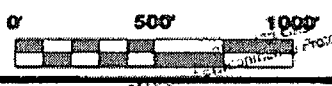


Not To Scale

NOTE: SEE SITE PLAN WEU6 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

SCALE: 1"=500'

TOPO SECTIONS OF WEST UNION 7.5' & SMITHBURG 7.5' USGS TOPO QUADRANGLES



Professional Energy Consultants
 A DIVISION OF SMITHLAND SURVEYING, P.C.

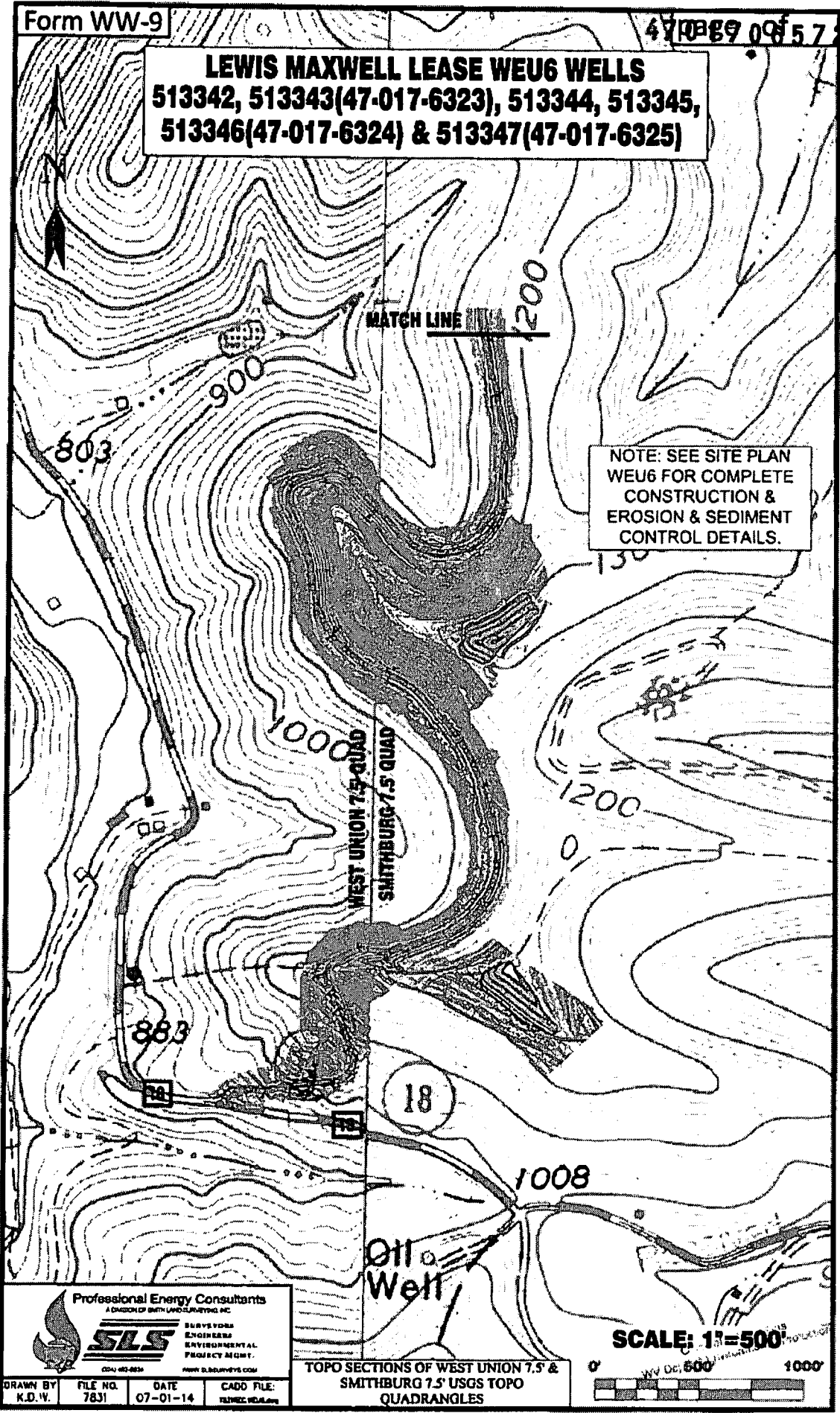
SMITHLAND SURVEYING, P.C.
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.
 2041 40th St.
 WWW.SLSURVYS.COM


DRAWN BY K.O.W.	FILE NO. 7831	DATE 07-01-14	CADD FILE: PEWEC.WEA.dwg
--------------------	------------------	------------------	-----------------------------

Received

WV 1100

LEWIS MAXWELL LEASE WEU6 WELLS
513342, 513343(47-017-6323), 513344, 513345,
513346(47-017-6324) & 513347(47-017-6325)



Professional Energy Consultants
 A DIVISION OF SMITH UNION SURVEYING, INC.
 **SLS**
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.
 204 W. 10th St.
 MARTINSBURG, WV 26150
 WWW.SURVEYS.COM

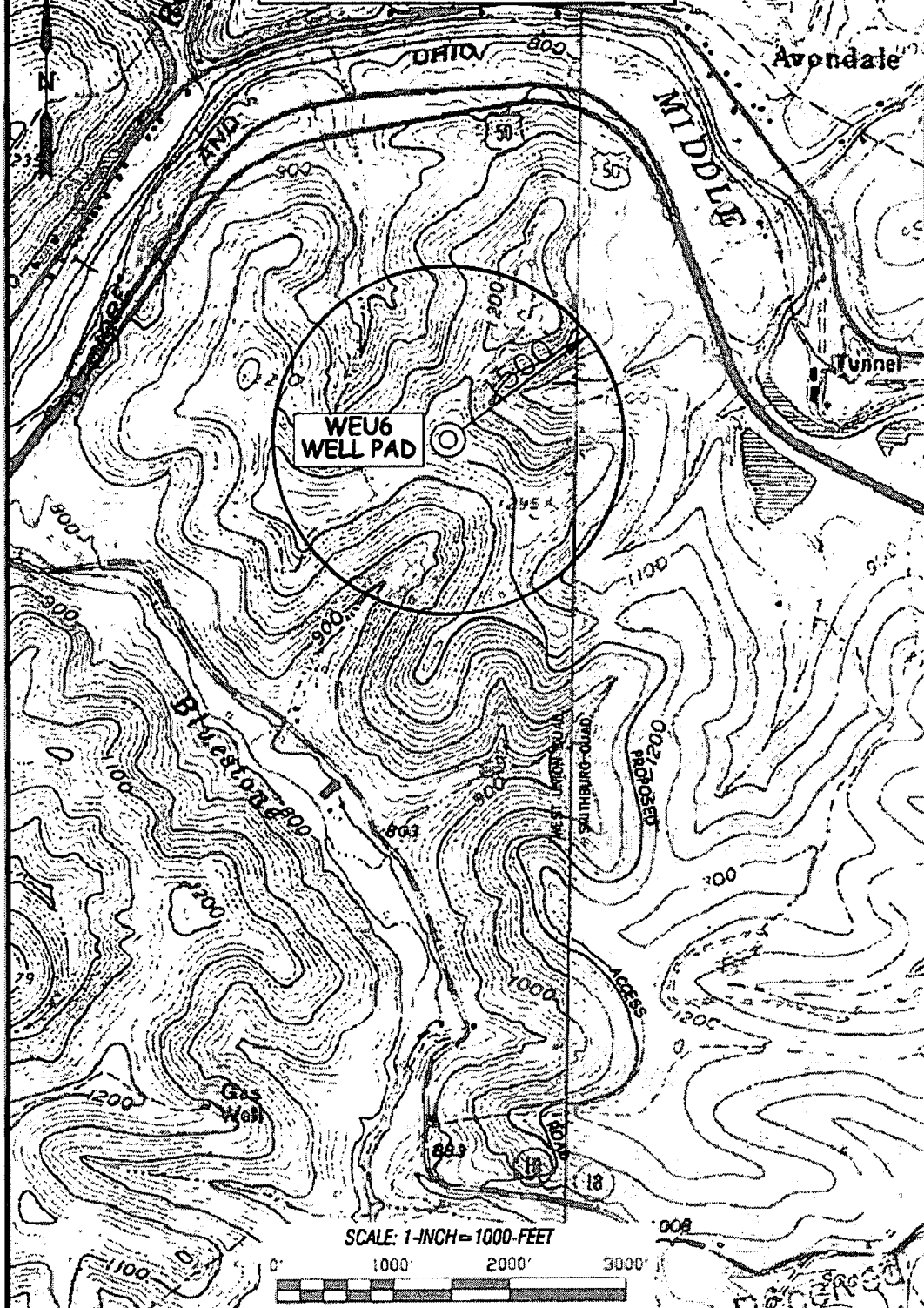
TOPO SECTIONS OF WEST UNION 7.5' &
 SMITHBURG 7.5' USGS TOPO
 QUADRANGLES


SCALE: 1"=500'
 0' 500' 1000'



DRAWN BY K.D.V.	FILE NO. 7831	DATE 07-01-14	CADD FILE: TLMREC.WELL.dwg
--------------------	------------------	------------------	-------------------------------

WATER SAMPLES EQT PRODUCTION CO. 470 706 507 2
 LEWIS MAXWELL LEASE
 WEU6 WELL PAD



				TOPO SECTION OF: WEST UNION, WV 7.5' QUAD.			OPERATOR: EQT PRODUCTION CO. 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330		
DRAWN BY: K.D.V.	FILE NO: 7531	DATE: 08/06/14	CAD FILE: WEU6.WXD	DISTRICT: WEST UNION	COUNTY: DODDRIDGE	TAX MAP-PARCEL NO. 12-71.1			

14 Desh...

4701706572



Where energy meets innovation.™

Site Specific Safety Plan

EQT WEU 6 Pad

West Union
Doddridge County, WV

For Wells:

513342 513344 _____

Date Prepared:

July 31, 2014

[Signature]
EQT Production
Permitting Supervisor
Title
8-7-14
Date

[Signature]
WV Oil and Gas Inspector
Title
4-14-2014
Date

RECEIVED
Office of Oil and Gas
AUG 19 2014
WV Department of
Environmental Protection

west virginia department of environmental protection



Water Management Plan: Well Pad Overview



WMP 02026

Operator

EQT Production Company

Plan Type: Well Pad

WEUG Well Pad

County: Doddridge

This Water Management Plan governs all water withdrawals associated the identified well pad. This plan supercedes any previously approved water management plans issued for the following wells. This plan is not in effect until at least one well-work permit identified below has been issued, and remains valid until all listed permits are released or expire.

WMP (old):	API Number:	Well Name/Number	Lat	Long	Status
01441	047-017-06323	513343	39.290211	-80.753795	
01442	047-017-06324	513346	39.290262	-80.753829	
01443	047-017-06325	513347	39.290190	-80.753760	
	047-017-06572	513342	39.290158	-80.753726	
	047-017-06573	513344	39.290127	-80.753691	

The following water consumption estimates (in gallons) have been reported for this plan:

Construction	105,000	Est. Construction Start	12/2/2013
Drilling Activities	840,000	Est. Reclamation End:	12/2/2018
Hydraulic Fracture	43,000,000		
Post-Fracture	420,000		
Incidental Use	105,000		
Reclamation Activities	42,000		
Total Water for Well Pad	44,512,000		

APPROVED

By M. Collins at 1:48 pm, Sep 03, 2014

west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP 02026

API/AD Number:

see overview

Operator:

EQT Production Company

Plan Type: Well Pad

WEU6 Well Pad

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.

For any sources identified by DEP as having known mussel, trout, or endangered species populations, the operator should consult with the Department of Natural Resources and the United States Fish and Wildlife Service prior to initiating any withdrawals.

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. Signage requirements must be satisfied within 24 hours of activating this water management plan.

Source Summary

WMP **02026** AP Number: **see overview** Operator: **EQT Production Company**
Plan Type: **Well Pad** WEU6 Well Pad

Stream/River

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

Max. daily purchase (gpd) Intake Latitude: Intake Longitude:
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** Doddridge Owner: **William Whitehill**

Max. daily purchase (gpd) Intake Latitude: Intake Longitude:
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: **Middle Fork @ Maxson Withdrawal Site** Ritchie Owner: **Douglas L. Maxson**

Max. daily purchase (gpd) Intake Latitude: Intake Longitude:
39.144183 -80.84664

Regulated Stream? Ref. Gauge ID: **3155220** **SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WV**

Max. Pump rate (gpm): **1,680** Min. Gauge Reading (cfs): **36.74** Min. Passby (cfs) **2.45**

DEP Comments

Source Detail

WMP **02026**

API/ID Number: [see overview](#)

Operator:

EQT Production Company

Plan Type: **Well Pad**

WEU6 Well Pad

Source ID: **41985** 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**

- Endangered Species? Mussel Stream? ZCC?
- Trout Stream? Tier 3? WHP
- Regulated Stream?
- Proximate PSD? **West Union Municipal Water**
- Gauged Stream?

Max. Pump rate (gpm): **4,200**

Max. Simultaneous Trucks: **10**

Max. Truck pump rate (gpm): **420**

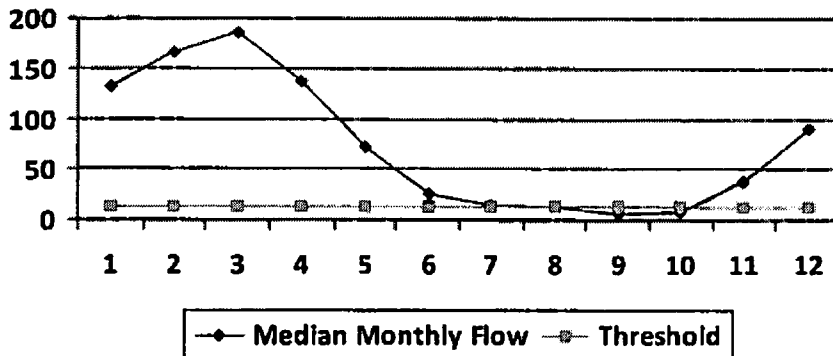
Reference Gaug: **3114500** **MIDDLE ISLAND CREEK AT LITTLE, WV**

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

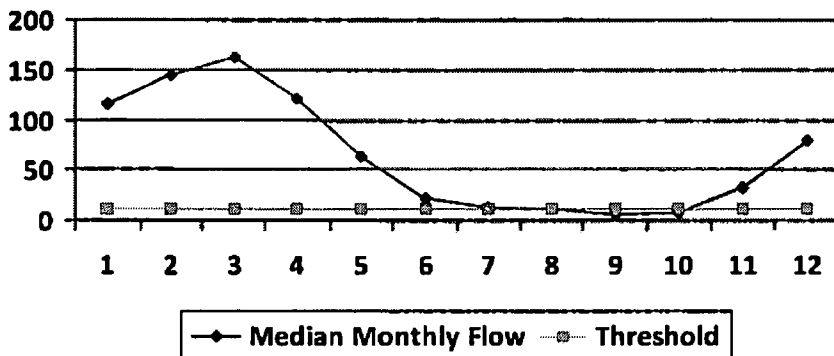
"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability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

Source Detail

WMP 02026	API/ID Number: see overview	Date: 10/1/14	EQT Production Company
Plan Type: Well Pad	WEUG Well Pad		
Source ID: 41986	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	
<input checked="" type="checkbox"/> Endangered Species?	<input checked="" type="checkbox"/> Mussel Stream?	<input checked="" type="checkbox"/> ZCC?	
<input type="checkbox"/> Trout Stream?	<input type="checkbox"/> Tier 3?	<input type="checkbox"/> WHP	
<input type="checkbox"/> Regulated Stream?	Proximate PSD? West Union Municipal Water		Max. Pump rate (gpm): 1,680
<input checked="" type="checkbox"/> Gauged Stream?			Max. Simultaneous Trucks: 4 Max. Truck pump rate (gpm): 420
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
<hr/>	
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.

Source Detail

WMP 02026

API/ID Number: see overview

Operator: EQT Production Company

Plan Type: Well Pad

WEU6 Well Pad

Source ID: 41987 Source Name Middle Fork @ Maxson Withdrawal Site
Douglas L. Maxson

Source Latitude: 39.144183
Source Longitude: -80.84664

HUC-8 Code: 5030203

Drainage Area (sq. mi.): 16.99 County: Ritchie

- Endangered Species? Musset Stream? ZCC?
- Trout Stream? Tier 3? WHP
- Regulated Stream?
- Proximate PSD?
- Gauged Stream?

Max. Pump rate (gpm): 1,680

Max. Simultaneous Trucks:

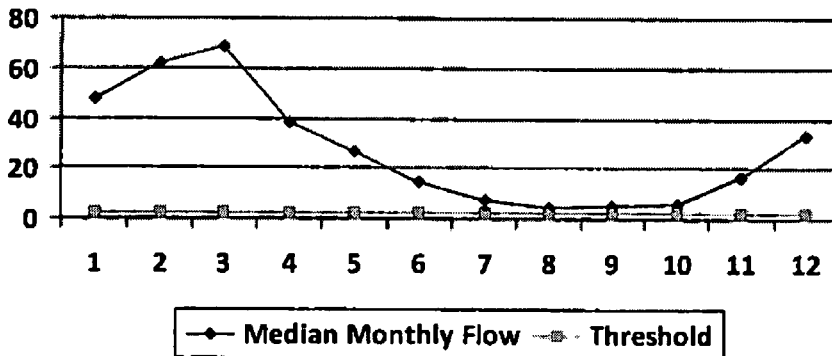
Max. Truck pump rate (gpm)

Reference Gaug 3155220 SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WV

Drainage Area (sq. mi.) 229.00 Gauge Threshold (cfs): 22

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	47.72	6.19	41.62
2	62.22	6.19	56.12
3	68.13	6.19	62.04
4	38.52	6.19	32.42
5	27.03	6.19	20.93
6	14.52	6.19	8.42
7	7.20	6.19	1.10
8	4.16	6.19	-1.94
9	5.00	6.19	-1.10
10	5.43	6.19	-0.67
11	16.23	6.19	10.13
12	33.50	6.19	27.40

Water Availability Profile



Water Availability Assessment of Location

Base Threshold (cfs): 1.63
 Upstream Demand (cfs): 0.00
 Downstream Demand (cfs): 0.00
 Pump rate (cfs): 3.74
 Headwater Safety (cfs): 0.41
 Ungauged Stream Safety (cfs): 0.41

Min. Gauge Reading (cfs): 36.74
 Passby at Location (cfs): 2.45

"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.

Source Detail

WMP 02026

API/ID Number

[see overview](#)

Operator

EQT Production Company

Plan Type: Well Pad

WEU6 Well Pad

Source ID: 41988 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

- Endangered Species?
 Mussel Stream?
 ZCC?
 Trout Stream?
 Tier 3?
 WHP
 Regulated Stream?
 Ohio River Min. Flow
 Proximate PSD?
 Gauged Stream?

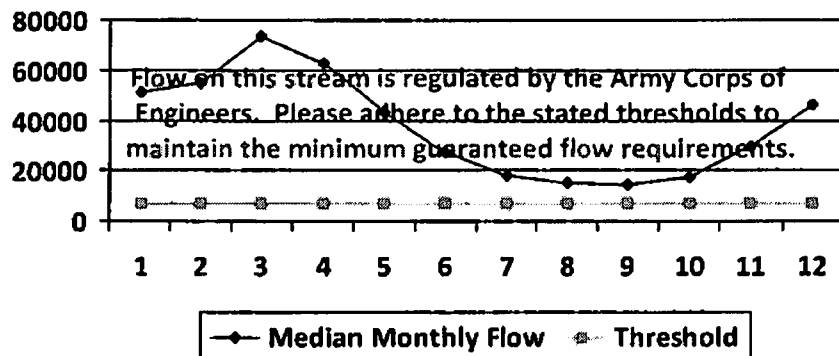
Max. Pump rate (gpm): 1,890
 Max. Simultaneous Trucks: 0
 Max. Truck pump rate (gpm): 0

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): 4.21
 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.

Source Detail

WMP 02026

API/D Number: [see overview](#)

Operator: **EQT Production Company**

Plan Type: **Well Pad**

WEU6 Well Pad

Source ID: **41990** Source Name: **Middle Island Creek @ Barnes Withdrawal Site
Ellen L. Barnes**

Source Latitude: **39.29958**
Source Longitude: **-80.75694**

HUC-8 Code: **5030201**

Drainage Area (sq. mi.): **107.08** County: **Doddridge**

- | | | |
|---|--|-------------------------------|
| <input checked="" type="checkbox"/> Endangered Species? | <input checked="" type="checkbox"/> Mussel Stream? | <input type="checkbox"/> ZCC? |
| <input type="checkbox"/> Trout Stream? | <input type="checkbox"/> Tier 3? | <input type="checkbox"/> WHP |
| <input type="checkbox"/> Regulated Stream? | | |
| <input checked="" type="checkbox"/> Proximate PSD? | West Union | |
| <input type="checkbox"/> Gauged Stream? | | |

Max. Pump rate (gpm): **1,680**

Max. Simultaneous Trucks: **0**

Max. Truck pump rate (gpm): **0**

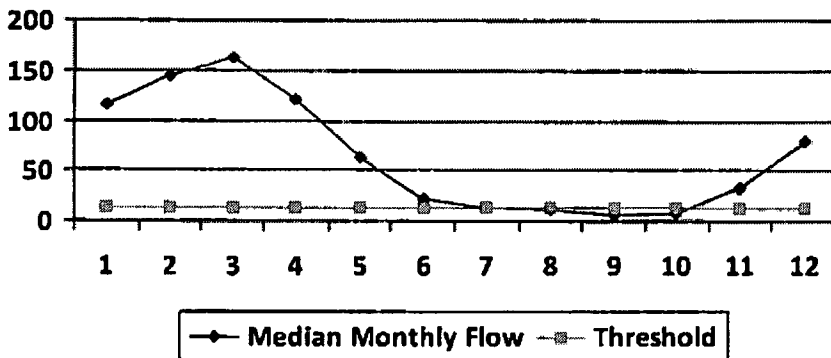
Reference Gaug: **3114500** **MIDDLE ISLAND CREEK AT LITTLE, WV**

Drainage Area (sq. mi.): **458.00**

Gauge Threshold (cfs): **45**

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	114.83	19.52	95.48
2	144.45	19.52	125.09
3	161.63	19.52	142.28
4	120.02	19.52	100.67
5	63.31	19.52	43.96
6	22.11	19.52	2.76
7	12.51	19.52	-6.84
8	10.30	19.52	-9.05
9	5.28	19.52	-14.08
10	6.63	19.52	-12.72
11	32.37	19.52	13.02
12	79.10	19.52	59.75

Water Availability Profile



Water Availability Assessment of Location

Base Threshold (cfs):	10.52
Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	13.24
Pump rate (cfs):	3.74
Headwater Safety (cfs):	2.63
Ungauged Stream Safety (cfs):	2.63
<hr/>	
Min. Gauge Reading (cfs):	71.24
Passby at Location (cfs):	29.02

"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.

west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP: 02026

API/ID Number

see overview

Operator

EQT Production Company

Plan Type: Well Pad

WEUG Well Pad

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.

Centralized Freshwater Impoundment

Source ID: 41994 Source Name: Davies Centralized Freshwater Impoundment

Source Lat: 39.269635 Source Long: -80.77711 County: Doddridge

Max. Daily Purchase (gal)

DEP Comments

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-1083

WMP 02026

API/ID Number

[see overview](#)

Operator

EQT Production Company

Plan Type: Well Pad

WEU6 Well Pad

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: 41991 Source Name Maxson Property Test Well #1

Source Lat: 39.14472 Source Long: -80.84664 County Ritchie

Max. Daily Purchase (gal)

DEP Comment:

WMP: 02026	API/ID Number	see overview	Operator	EQT Production Company
Plan Type: Well Pad			WEU6 Well Pad	

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: 41992 Source Name: Pennsboro Lake

Source Lat: 39.281689 Source Long: -80.925526 County: Ritchie

Max. Daily Purchase (gal)

DEP Comments:

Source ID: 41993 Source Name: Gilliland Reservoir

Source Lat: 39.265398 Source Long: -80.971995 County: Ritchie

Max. Daily Purchase (gal)

DEP Comments:

WMP 02026

API/ID Number

[see overview](#)

Operator

EQT Production Company

Plan Type: Well Pad

WEU6 Well Pad

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.
-

Recycled Frac Water

Source ID: 41995 Source Name Various

Source Lat:

Source Long:

County

Max. Daily Purchase (gal)

DEP Comments: Sources may include, but are not limited to the WEU6 Well Pad.



Where energy meets innovation.™

Site Specific Safety Plan

EQT WEU 6 Pad

West Union
Doddridge County, WV

For Wells:

513342

513344

Date Prepared:

July 31, 2014

[Signature]
EQT Production

WV Oil and Gas Inspector

Permitting Supervisor
Title

Title

Date

8-7-14

Date

TABLE OF CONTENTS

<i>Section</i>	<i>Description</i>	<i>Pages</i>
I	Contacts, Schedules & Meetings	3-8
II	Maps & Diagrams	9-12
III	Well Work	13-15
IV	Chemical Inventory & SDS	16
V	BOP & Well Control	17-19
VI	Hydrogen Sulfide	20-22
VII	Collision Avoidance	24
IX	Deep Well Additional Requirements	25-27
X	Well Site Safety Plan Receipt Acknowledgement	28

Section I: Contacts, Schedules and Meetings

EQT Emergency Contact Information	Local Emergency Response Numbers
<p><u>EQT 24-hour Number:</u> 1-800-978-1728</p> <p><u>EQT Environmental Department</u> Dustin Howarth O: 412.395.3930 C: 412.208.5758</p> <p><u>EQT Health and Safety Department</u> Brian Ely C: 304.848.0067</p> <p>Scott M. Hold (Secondary) O: 412.395.3124 C: 724.705.4114</p> <p><u>EQT Construction</u> Superintendent Allen Mulcahy PHONE: 304.348.5313 PHONE: 304.543.5400</p> <p>Phil Keeton, Mgr Construction Services PHONE: 304.348.7805 PHONE: 304.542.8814</p> <p><u>EQT Manager - Land</u> Jason Ranson, Regional Land Manager PHONE: 304.348.5319 PHONE: 304.543.9442</p> <p>Bryant Bowman, Regional Land Manager PHONE: 304.348.3827 PHONE: 304.550.8821</p> <p><u>EQT Director - Geology</u> James Pancake, Director of Geology PHONE: 412.395.3912</p>	<p><u>County Emergency Dispatch Center:</u> Central Communications Center EMERGENCY 9-1-1 EMERGENCY 10-digit 304.659.3770 Business # 304-659-3770(not manned 24/7) John Dotson - Director</p> <p><u>Primary Response Fire Department:</u> To be determined by the Dispatch Center EMERGENCY 9-1-1 EMERGENCY 10-digit 304.659.3770</p> <p><u>Primary Response Law Enforcement Agency:</u> To be determined by the Dispatch Center EMERGENCY 9-1-1 EMERGENCY 10-digit 304.659.3770</p> <p><u>Primary Response Ambulance Service:</u> To be determined by the Dispatch Center EMERGENCY 9-1-1 EMERGENCY 10-digit 304.659.3770</p> <p><u>County Emergency Services/Management (CES):</u> Doddridge County Office of Emergency Management EMERGENCY 9-1-1 EMERGENCY 10-digit 304-873-3253 BUSINESS PHONE: 304-203-5455 (cell) Rt. Box # 57 West Union, WV 26456 Director Pat Heaster Asst. Director Mike Hamilton</p> <p><u>Nearby Hospital</u> United Hospital Center of Bridgeport Emergency Room # 681, 342.1000 327 Medical Park Dr, Clarksburg, WV 26330 Distance from site: 39 Miles Estimated travel time: 55 Minutes</p>

Drilling Operations Emergency Contact Information	Completions Operations Emer Contact Information
<p><u>On-Site Drilling Specialist</u> EQT Corporation TO BE DETERMINED</p>	<p><u>On-Site Completion Specialist</u> EQT Corporation TO BE DETERMINED</p>
<p><u>EQT Drilling</u> James Rose, Director Drilling Engineering PHONE: 412.395.2319 PHONE: 412.443.0282</p>	<p><u>EQT Completions</u> James Abbott, Director Completions PHONE: 412.553.5998 PHONE: 412.579.8949</p>
<p>Bradley Maddox, Mgr Drilling PHONE: 412.395.7053 PHONE: 412.208.5790</p>	<p>Jim Helmick, VP Completions PHONE: 412.395.5518 PHONE: 412.216.7608</p>
<p><u>Drilling Contractor 1:</u> TO BE DETERMINED</p>	<p><u>Completions Contractor 1:</u> TO BE DETERMINED</p>
<p><u>EQT Production (Midstream)</u> Ken Kirk, EVP Production PHONE: 412.553.7836 PHONE: 304.552.3575</p>	
<p>Greg Shockley, Director of Operations Midstream PHONE: 304.269.2061 PHONE: 304.266.5183</p>	
<p><u>EQT Government and Community Relations</u></p>	
<p><u>Local Government:</u></p>	
<p>Nathaniel Manchin, Mgr Community Relations PHONE: 412.553.5702 PHONE: 304.543.5010</p>	
<p><u>State Government:</u></p>	
<p>Stephen Perdue, WV Government Relations Mgr PHONE: 304.348.3886 PHONE: 304.545.2622</p>	

Local, State, and Federal Agency Numbers	Assigned Specialist Response Numbers
<p><u>Local State Well Inspector</u> WVDEP Office of Oil and Gas Douglas Newton 4060 Dutchman Road Maclertan, WV 26148 Pollution and Emergency Spills 1-800-642-3074 304.932.8049 (Cell)</p> <p><u>USCG/National Response Center (NRC):</u> 800.424.8802</p> <p><u>CHEMTREC</u> Emergency: 800.424.9300 Business: 800.262.8200</p> <p><u>US DOT Pipeline and Hazardous Materials Safety Administration (PHMSA)</u> Haz-Mat: 800.467.4922 Pipeline: 202.366.4595</p>	<p><u>Primary Spill Response Company:</u> Ryan Environmental, Inc. EMERGENCY PHONE: 800.649.5578 BUSINESS: 304.842.5578 Route 4 Box 260, 76E Bridgeport, WV 26330</p> <p><u>Secondary Spill Response Company:</u> Miller Environmental Inc. EMERGENCY PHONE 1-888-988-8655 1-304-292-8655 514 Hartman Run Road Morgantown, WV 26505</p> <p><u>Primary Well Emergency Response Company:</u> Wild Well Control EMERGENCY PHONE: 281-784-4700 BUSINESS PHONE: 281-784-4700 2002 Oil Center Court Houston, TX 77073 Michael Wilford/ PA Safety Coordinator</p> <p><u>Secondary Well Emergency Response Company:</u> Boots & Cools EMERGENCY PHONE: 1-281-931-8884 or 800-256-9688 BUSINESS PHONE: same as above 10200 Bellaire Blvd. Houston, TX 77072</p> <p><u>Primary Hazardous Waste Disposal Company:</u> NAME: Ryan Environmental, Inc. EMERGENCY PHONE: 800.649.5578 BUSINESS PHONE: 304.842.5578 ADDRESS Route 4 Box 260, 76E ADDRESS Bridgeport, WV 26330</p> <p><u>Primary Hydrogen Sulfide (H₂S) Company:</u> Safety Consultants: McCulley, Eastham, and Associates EMERGENCY PHONE: 1-800-556-4227 CONTACT NAME/TITLE: Matt Boggs at 606-922-2066</p>

Notification Methods

Notification of the public will be made in conjunction with EQT personnel listed above and emergency first responders listed above in the event that they are affected by an event such as hydrogen sulfide releases, blow-outs and flaring. The public list is attached to the map listed in Section II: Maps and Diagrams and the procedures for notification, isolation zones, and evacuations are also listed in Section II: Maps and Diagrams.

Additional actions and precautions for the presence of hydrogen sulfide are listed in Section V: Hydrogen Sulfide.

Flaring notification procedures are listed in Section V: BOP and Well Control.

Pre-Drill Meeting

A Pre-Drill Meeting will be held on location with the following personnel in attendance:

- WV OOG Inspector and /or Supervisor
- EQT Land Agent
- EQT Construction Specialist
- EQT Drilling Contractor Personnel, i.e. Tool Pusher, Driller(s), Safety Manager
- EQT On-Site Drilling Specialist and/or Supervisor

Optional attendees may include:

- EQT Safety and Health Coordinator or designee, if available
- EQT Environmental Coordinator or designee, if available
- EQT H2S Contractor representative, if in an H2S plan required zone.
- EQT Completions Personnel

Safety Meetings

A completed and documented EQT Tailgate Safety Meeting (TSM) or Contractor Representative Tailgate Talk or Job Safety Analysis (JSA) is required prior to the beginning of each work shift during all phases of the operation. Copies of these forms should be logged and kept in a location on-site for periodic auditing by EQT or the contractor.

See the attached EQT Tailgate Safety Meeting (TSM) Form on the following pages



EQT Tailgate Safety Meeting

Form Revision Date: 2/24/2014

SECTION 1: GENERAL INFORMATION					
Date & Time: _____	Location/Physical Address: _____				
Project Name: _____	GPS Coordinates: _____				
Emergency Contact: _____	Emergency Notification #: _____				
DIAL 911 FOR ALL EMERGENCIES - IF 911 IS NOT AVAILABLE, LIST AN ALTERNATIVE NUMBER.					
Primary Assembly Point: _____	Secondary Assembly Point: _____				
Nearest Medical Facility: _____	Nearest fire Extinguisher: _____				
Nearest First Aid Kit: _____	Nearest Eye Wash: _____				
Do Cell Phones Work: <input type="checkbox"/> Yes <input type="checkbox"/> No	Project Name: _____				
SECTION 2: TASK INFORMATION					
Describe the tasks to be performed: _____					
Are the employees working on a task out of sight of each other? If so, what communication method is being used? <input type="checkbox"/> Cell Phone <input type="checkbox"/> Land Line <input type="checkbox"/> 2-Way Radio <input type="checkbox"/> Other					
SECTION 3: HAZARD IDENTIFICATION & CONTROL					
TYPE OF WORK <input type="checkbox"/> Hot Work <input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Excavation <input type="checkbox"/> Confined Space (If checked, additional permits/forms must be completed)					
Mark An X On All Applicable Hazards For This Task:					
<input type="checkbox"/> Hazardous Atmosphere <input type="checkbox"/> Temperature Extremes (Heat & Cold) <input type="checkbox"/> Safety Systems Bypassed/Disabled <input type="checkbox"/> Trapped Pressure <input type="checkbox"/> Fall From Heights <input type="checkbox"/> Moving Machinery <input type="checkbox"/> Suspended Loads/Hanging <input type="checkbox"/> Ignition Sources	<input type="checkbox"/> Overhead Exposure <input type="checkbox"/> Chemical Exposure <input type="checkbox"/> Weather Hazard <input type="checkbox"/> Heavy Loads <input type="checkbox"/> Noise <input type="checkbox"/> electric <input type="checkbox"/> pinch points <input type="checkbox"/> Lone Worker	<input type="checkbox"/> Hydrates/Lime Bypassage <input type="checkbox"/> Lifting (Springs & Straps) <input type="checkbox"/> Electric <input type="checkbox"/> Slips/Trips/Falls <input type="checkbox"/> Exposure to Cold/Heat <input type="checkbox"/> Adjacent Operations <input type="checkbox"/> Mobile Equipment <input type="checkbox"/> Overexertion	<input type="checkbox"/> Radiation <input type="checkbox"/> Asbestos/Lead Materials <input type="checkbox"/> PCBs <input type="checkbox"/> Dusty Environment <input type="checkbox"/> Roadway Work/Traffic Control <input type="checkbox"/> Wildlife (Snakes, Bees, etc.) <input type="checkbox"/> Insects (Bees,Ticks, etc.) <input type="checkbox"/> Other _____		
SECTION 4: PERSONAL PROTECTIVE EQUIPMENT					
Mark An X Next To Required PPE: HARD HAT, SAFETY GLASSES AND HARD TOE BOOTS ARE ALWAYS REQUIRED					
GENERAL PPE	GLOVES	FALL ARREST	PERSONAL MONITOR	RESPIRATOR TYPE*	
<input type="checkbox"/> Face Shield <input type="checkbox"/> Earplugs <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Chainsaw Chaps <input type="checkbox"/> Other _____	<input type="checkbox"/> Leather <input type="checkbox"/> Fall Protection <input type="checkbox"/> High Visibility Vest <input type="checkbox"/> Chemical Coveralls <input type="checkbox"/> Snake Chaps <input type="checkbox"/> Other _____	<input type="checkbox"/> General Purpose <input type="checkbox"/> Chemical Resistant <input type="checkbox"/> Heat Resistant <input type="checkbox"/> Other _____	<input type="checkbox"/> Harness <input type="checkbox"/> Lanyard <input type="checkbox"/> Retrieval Line <input type="checkbox"/> Other _____	<input type="checkbox"/> Air Gas Monitor <input type="checkbox"/> IDLH <input type="checkbox"/> O ₂ <input type="checkbox"/> CO	<input type="checkbox"/> Dust Mask <input type="checkbox"/> Full Face Mask <input type="checkbox"/> SCBA <input type="checkbox"/> Other _____
<small>*Notes (Employees/Contractors must be medically qualified and trained in order to wear a respirator)</small>					
SECTION 5: TSM COMPLETION					
EQT TSM LEADER: _____ Print: _____		Signature: _____			
List EQT Employees conducting the tasks and participating in the TSM: (Initials, last name, first name, middle name, phone number, & job title)					
Print: _____	Print: _____	Print: _____	Print: _____	Print: _____	
Print: _____	Print: _____	Print: _____	Print: _____	Print: _____	
Print: _____	Print: _____	Print: _____	Print: _____	Print: _____	
Contractor Name (if applicable): _____					
List all contract employees conducting the task: (Initials, last name, first name, middle name, phone number, & job title)					
Print: _____	Print: _____	Print: _____	Print: _____	Print: _____	
Print: _____	Print: _____	Print: _____	Print: _____	Print: _____	
Print: _____	Print: _____	Print: _____	Print: _____	Print: _____	
Are other personnel on-site conducting tasks not related to this task? <input type="checkbox"/> YES <input type="checkbox"/> NO					
If you answered YES to the question above, will the other personnel be affected by this task? <input type="checkbox"/> YES <input type="checkbox"/> NO					
If you answered YES to the question above, have you included those personnel in this TSM? <input type="checkbox"/> YES <input type="checkbox"/> NO					
Note: All personnel arriving after initial TSM shall be tailgated: (Initials, last name, first name, middle name, phone number, & job title)					
Comments: _____					

Section II: Maps and Diagrams

General Information Pertaining to well pad location:

WV- Doddridge County - West Union
Site State, County and Municipality

EOT WEU6 Pad
Site Location Designation

795 WV Rt 18 South, West Union, WV 26456
Site Address assigned by County 8-1-1

US Rt. 50 and WV Rt 18
Nearest cross road(s)

NAD 83: 39.287296 / -80.764765
Access Road Coordinates

NAD 83: 39.290259 / -80.753570
Pad Site Coordinates

Directions:

NORTH ON I-78 TO EXIT 119 THEN TURN LEFT ONTO US RT 50 WEST THEN GO +/- 29 MILES THEN TURN LEFT ONTO HWY 18 THEN GO +/- 1.0 MILES AND PROPOSED LOCATION WILL BE ON RIGHT FOR THE WEU-6H2, H5, H6.

Maps:

Maps are included on the following pages for reference for the above described well location. The two types of maps included are:

1. Plan View Map
2. Topographical map with 1-mile safety radius

Site Evacuation Plan:

Assembly areas

- Each Site is responsible for identifying a designated assembly area for personnel to safely evacuate to in the event of an emergency.
- Evacuation in place may be most suitable for inclement weather but that decision shall be made by the On-Site Specialist or Emergency Coordinator (Examples: Near the access road, Site Location Sign, On-Site Specialist trailer).
- Assembly points should be determined so as to be upwind in consideration of the prevailing wind at the site.
- At a minimum, a secondary assembly area shall be determined. Secondary assembly points should be located to be 90 degrees to the prevailing wind.
- Each determined assembly area shall be communicated to all personnel on the site.

Affected and Unaffected areas

- The Emergency Coordinator, or their representative, will establish the emergency area as the affected area and order the evacuation of all non-essential personnel to the primary assembly area.
- The purpose is to minimize the risk of exposure to all personnel.
- On-site rescuers and equipment should be staged in areas unaffected by the emergency.
- Off-site services and equipment summoned to the scene should be staged in areas unaffected by the emergency.
- Only essential personnel, as determined by the Emergency Coordinator, shall be granted entry into the affected area(s) after an emergency has occurred.

Evacuation

- In the event of an emergency all non-essential personnel shall immediately evacuate their work areas and report to the Assembly Area.
- Evacuation must be quick as life safety may be of the essence.
- Personnel should evacuate to the assembly area via the quickest route. If that route is blocked or hazardous, another route should be taken.
- Personnel should make sure that their co-workers heard the call for evacuation and assure that no one is left behind.
- Only essential personnel required for process critical jobs can stay behind, all others shall evacuate. This decision shall be at the sole discretion of the Emergency Coordinator and in no means should life safety be jeopardized.

- Should the primary assembly area be unsuitable for evacuation, the alternate location shall be communicated to all personnel. The Emergency Coordinator or their designee is responsible for determining the safest assembly area.
- Accountability shall be verified as soon as possible by the Emergency Coordinator or their designee. Those who are unaccounted for shall be immediately reported to the Emergency Coordinator
- If evacuation is required for the surrounding areas, notifications to all personnel listed on the attached Topographical and One-Mile Safety Buffer Map and contact list shall be made by the On-Site Emergency Coordinator or their designee with the assistance of the emergency first responders and the county LEPC or CES.
- Evacuation locations and assembly areas will be made with the coordination of local emergency first responders.

Scene Access

- Access to the scene should be controlled at all times by the Emergency Coordinator or their representative.
- Access needs to be controlled to reduce life safety concerns as well as preserve evidence for investigation and root cause analysis.
- Access should never be restricted in a way as to impede those who are evacuating in an emergency.
- The scene needs to be secured to prevent unauthorized entry by posting signs, tape, personnel, or other means at any and all access points.
- Unauthorized access into the affected area(s) is prohibited and calls for immediate removal from the site.

Accountability

- The daily TSM or JSA shall be used to verify accountability for all personnel as soon as possible after an incident has occurred.
- A sign in and out sheet shall be used to account for personnel entering and exiting the area after an incident has occurred.
- All personnel unaccounted for shall be immediately reported to the Emergency Coordinator as well as emergency first responders.

Plan View Map

See the attached West Virginia Rec Plans on the following pages for each well number listed on the permit cover page.

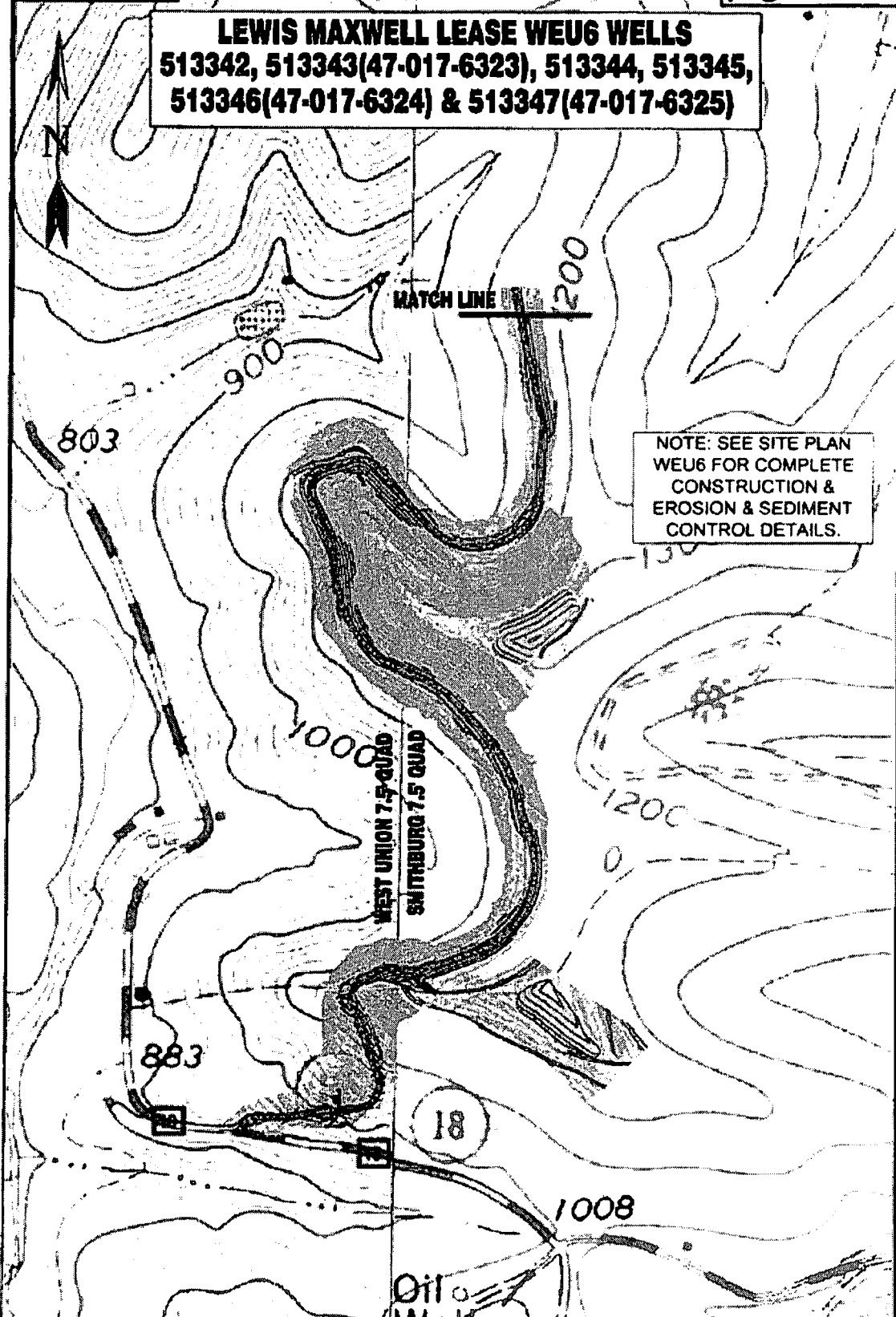
Plan View map notes:

This is a basic map of the site which shows the access road(s), nearby dwellings, and true north direction.


The prevailing wind direction for this area is from the southwest unless otherwise noted.

Flare lines, if needed, will be ran and installed as per procedure.

LEWIS MAXWELL LEASE WEU6 WELLS
513342, 513343(47-017-6323), 513344, 513345,
513346(47-017-6324) & 513347(47-017-6325)

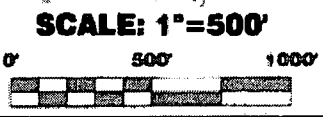


NOTE: SEE SITE PLAN WEU6 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

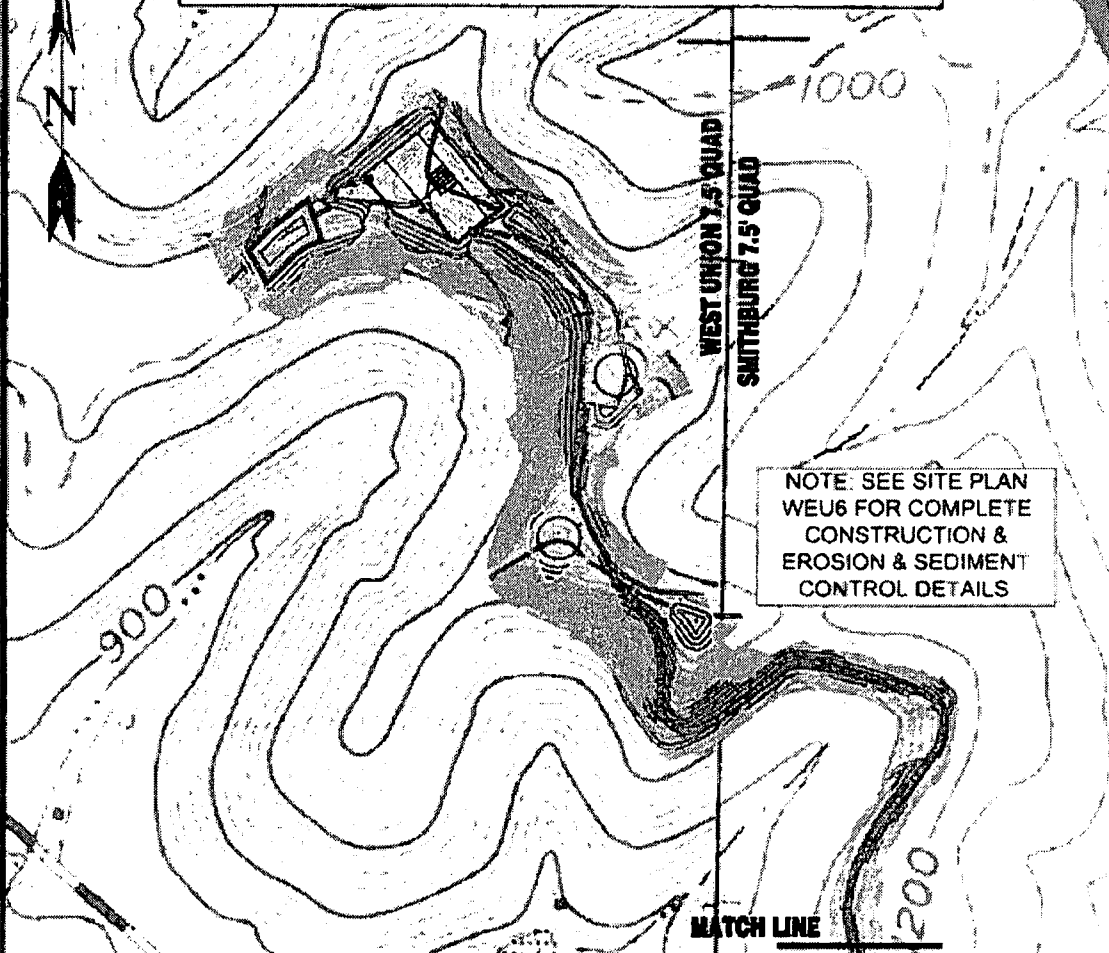
Professional Energy Consultants
 A DIVISION OF SMITHLAND SURVEYING, INC.

 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL ASSESSMENT
 PROPERTY MGMT.
 (201) 622-9999
 WWW.SLSURVYS.COM

DRAWN BY: K.D.V. FILE NO: 7831 DATE: 07-01-14 CADD FILE: 20130701.DWG

TOPO SECTIONS OF WEST UNION 7.5 & SMITHBURG 7.5 USGS TOPO QUADRANGLES

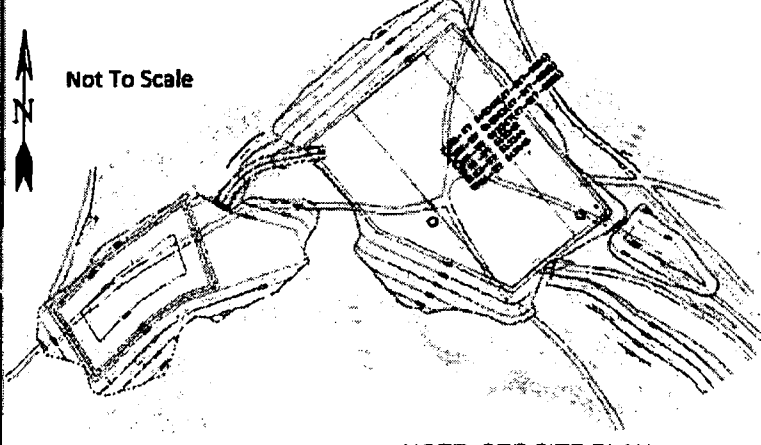


LEWIS MAXWELL LEASE WEU6 WELLS
513342, 513343(47-017-6323), 513344, 513345,
513346(47-017-6324) & 513347(47-017-6325)



NOTE: SEE SITE PLAN WEU6 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS

Detail Sketch for Proposed WEU6 Well Numbers WV 513342 & WV 513344



NOTE: SEE SITE PLAN WEU6 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

Professional Energy Consultants
A DIVISION OF SOUTHWEST ENERGY SERVICES, INC.

 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.
2005 402 4631 WWW.OILSERVICE.COM

TOPO SECTIONS OF WEST UNION 7.5' & SMITHBURG 7.5' USGS TOPO QUADRANGLES

SCALE: 1"=500'



DRAWN BY K.D.W.	FILE NO. 7831	DATE 07-01-14	CADD FILE 7831REC.WELL.dwg
--------------------	------------------	------------------	-------------------------------

Topographical map with 1-mile safety radius

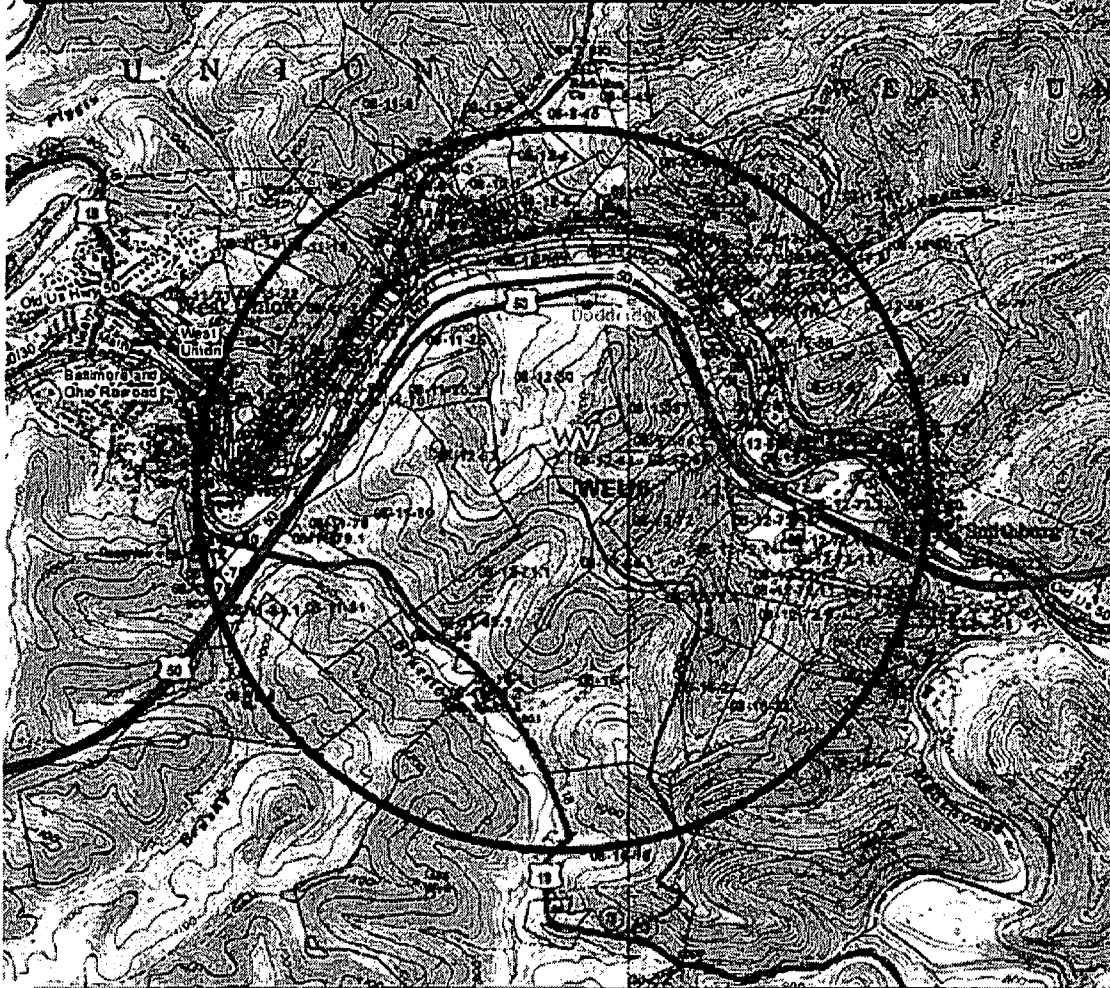
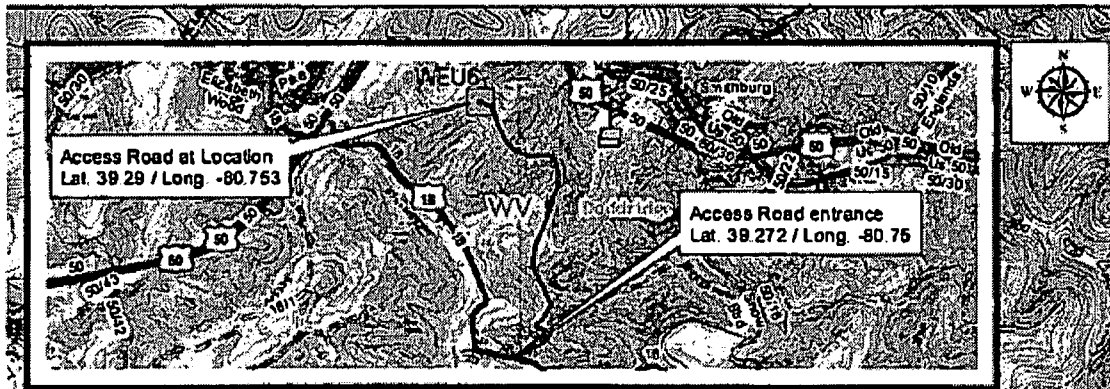
See the attached topographical map on the following pages along with the attached list with emergency contact information

Topographical map with 1-mile safety radius map notes:

This is a basic map of the site which shows the topography of the area.

A defined 1-mile safety radius is shown on the map along with an attached list, if available, of the names, addresses and telephone numbers of residents, churches, schools and emergency facilities located within that one mile radius.

The map shows the nearby public route numbers and/or names



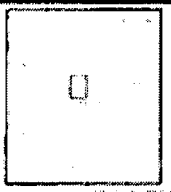
Legend					
	Horizontal PUD Locations		Access Routes		Railroads
	Safety Buffer		Highways		College
	Tax Parcels		Interstates		Fire Department
	LANDMARKS		Major Roads		Hospital
	Access Route		Streets		School
					Church
					Law Enforcement
					Hospital

EQT
 1117 Pennsylvania Ave
 West Union, WV 26087
 304-261-1111
 304-261-1112

Site Safety Plan

WEUS
 One Mile Safety Buffer

Site Safety Plan
 WEUS
 One Mile Safety Buffer



**WEU 6 PAD
SITE SAFETY PLAN**

MAP #	TM/PARCEL	NAME	ADDRESS	PHONE
1	8-12-50	KEY OIL COMPANY	2567 SPRING HILL RD STAUNTON VA 24401	434-979-1380
2	8-12-51	FRANKLIN L BUTLER	22 GARTON PLAZA WESTON WV 26452	304-269-2538
3	8-12-64	KEY OIL COMPANY	2567 SPRING HILL RD STAUNTON VA 24401	434-979-1380
4	8-12-64	KEY OIL COMPANY	2568 SPRING HILL RD STAUNTON VA 24401	434-979-1380
5	8-12-65	ELLA MARGARET ROBINSON	1117 E PENN AVE PENNSBORO WV 26415	304-659-2387
6	8-12-73	ELLA MARGARET ROBINSON	1118 E PENN AVE PENNSBORO WV 26415	304-659-2388
7	8-12-72.4	DODDRIDGE COUNTY 4-H ASSOCIATION	RT 2 BOX 98 SALEM WV 26426	304-624-8650
8	8-12-72.10	DODDRIDGE COUNTY BOARD OF EDUCATION	SISTERSVILLE PIKE WEST UNION WV 26456	304-873-2300
9	8-12-72.14	DODDRIDGE COUNTY BOARD OF EDUCATION	SISTERSVILLE PIKE WEST UNION WV 26456	304-873-2300
10	8-12-72.11	DODDRIDGE COUNTY BOARD OF EDUCATION	SISTERSVILLE PIKE WEST UNION WV 26456	304-873-2300
11	8-12-72.12	DODDRIDGE COUNTY BOARD OF EDUCATION	SISTERSVILLE PIKE WEST UNION WV 26456	304-873-2300
12	8-12-72.13	DODDRIDGE COUNTY BOARD OF EDUCATION	SISTERSVILLE PIKE WEST UNION WV 26456	304-873-2300
13	8-12-72.16	TOWN OF WEST UNION	TOWN OF WEST UNION WV 26456	304-873-3379
14	8-12-72.2	WARREN E AND JUDY E BEE	RT 2 BOX 26 SALEM WV 26426	304-782-3126
15	8-12-72.1	WILLIAM H KNISELY III	587 FRACTION RD WEST FINLEY PA 15377	NOT LISTED
16	8-12-72.8	WARREN E AND JUDY E BEE	RT 2 BOX 26 SALEM WV 26426	304-782-3126
17	8-12-BLANK	OWNERS IDENTIFIED BELOW		
18	8-12-72.5	MICHAEL L MCCOMBS	RT 2 BOX 39 A WEST UNION WV 26456	304-873-2937
19	8-12-72.7	MICHAEL L MCCOMBS	RT 2 BOX 39 A WEST UNION WV 26457	304-873-2938
20	8-18-3	MARIE E GASSAWAY	618 FAIRVIEW AVE LEBANON TN 37087	NOT LISTED

21	8-16-7	GERTRUDE ARBUTUS OOTSON	5814 CHURCH DR CHARLESTON WV 25306	304-926-6359
22	8-16-16	CHARLES JR AND BARBARA WELLINGS	HC 68 BOX 3 WEST UNION WV 26456	304-873-1999
23	8-16-1	PAUL MCCUTCHAN	300 WOOD ST WEST UNION WV 26456	304-873-1849
24	8-16-21	WINNIE J, RICHARD L JR HACKLEY	517 NORTH LAKE DRIVE MONROE NC 28112	704-289-6250
25	8-16-22	WILLIAM H KNISELY III	584 FRACTION RD WEST FINLEY PA 15377	NOT LISTED
26	8-12-64.1	FRANK L BUTLER	2567 SPRING HILL RD STAUNTON VA 24401	304-269-1828
27	8-12-71.1	FRANKLIN L BUTLER AND KEY OIL COMPANY	22 GARTON PLAZA WESTON WV 26452	304-269-1829
28	8-12-63	IRELAND KAREN M FAMILY LIMITED	324 IRELAND RD PULLMAN WV 26421	304-349-2957
29	8-11-25.1	MARVIN L PHILLIPS	RT 1 BOX 270 PENNSBORD WV 26415	NOT LISTED
30	8-11-26	IRELAND KAREN M FAMILY LIMITED	324 IRELAND RD PULLMAN WV 26421	304-349-2957
31	8-11-70	FOUR LEAF LAND COMPANY	PO BOX 341 WEST UNION WV 26456	304-873-2258
32	8-11-80	IRELAND KAREN M FAMILY LIMITED	324 IRELAND RD PULLMAN WV 26421	304-349-2957
33	8-11-79	B C RANDOLPH HICKMAN	CEMETERY ADDRESS NOT LISTED	NOT LISTED
34	8-11-79.1	DANIEL J WELLINGS	HC 68 BOX 3 WEST UNION WV 26456	304-873-1999
35	8-11-89.1	WILLIAM LEE AND CHRISTINA TRENT	1 FIRST AMERICAN WAY WESTLAKE TX 76262	304-873-1122
36	8-11-89	PHAME TRENT	HC 68 BOX 1 WEST UNION WV 26456	NOT LISTED
37	8-15-8	RUTH M DAVIES PIERCE	1104 GREENMONT CIRCLE VIENNA WV 26105	NOT LISTED
38	8-11-81	CARDLYN E IRREVOCABLE FARR	PO BOX 1124 BRIDGEPORT WV 26330	NOT LISTED
39	8-11-81.1	WAYMOND O II AND DEBORAH CORK	RT 5 BOX 112 SALEM WV 26426	304-782-3996
40	8-15-4	E PROPERTIES LTD	PO BOX 202 WEST UNION WV 26456	304-869-3256
41	8-16-1.1	ALDEN CARROLL "JOEY" SUTTON	HC 68 BOX 2A WEST UNION WV 26456	304-873-2094
42	8-16-16.3	ACE FUELS INC.	NM ST RT BOX 3 WEST UNION WV 26456	NOT LISTED
43	8-16-16.4	ACE FUELS INC.	NM ST RT BOX 3 WEST UNION WV 26456	NOT LISTED

44	8-12-7	HAROLD F ROBISON	9908 HORTON RD NEW HILL NC 27562	NOT LISTED
45	8-12-26	MELINDA SUE YOUNG	RT 2 BOX 3 WEST UNION WV 26456	304-873-1928
46	8-12-98	MELINDA SUE YOUNG	RT 2 BOX 3 WEST UNION WV 26456	304-873-1929
47	8-12-8	JOHN SAMUEL AND PEGGY JUNE SMITH	142 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
48	8-12-27	LOUETTA BODE	RT 2 BOX 4 WEST UNION WV 26456	NOT LISTED
49	8-12-28	GREGORY F AND MARTHA E CADE	RT 1 BOX 3928 SALEM WV 26426	304-782-2202
50	8-12-29	RAYMOND FRAIZER	1 FIRST AMERICAN WAY WESTLAKE TX 76262	NOT LISTED
51	8-12-31	MARIE ADELENE HUSK	142 N SIXTH AVE PADEN CITY WV 26159	NOT LISTED
52	8-12-30	RAYMOND FRAIZER	1 FIRST AMERICAN WAY WESTLAKE TX 76262	NOT LISTED
53	8-12-33	MARIE ADELENE HUSK	142 N SIXTH AVE PADEN CITY WV 26159	NOT LISTED
54	8-12-35	JOHN SAMUEL AND PEGGY JUNE SMITH	142 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
55	8-12-37	JOHN SAMUEL AND PEGGY JUNE SMITH	143 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
56	8-12-36	VICKI HOSKINSON	RT 2 BOX 9 WEST UNION WV 26456	304-873-1904
57	8-12-34	VICKI HOSKINSON	RT 2 BOX 9 WEST UNION WV 26457	304-873-1904
58	8-12-32	ST RD COMM	NO ADDRESS FOUND	NOT LISTED
59	8-12-8	JOHN SAMUEL AND PEGGY JUNE SMITH	143 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
60	8-12-40	DAVID A HOSKINSON	RT 2 BOX 9 WEST UNION WV 26456	304-873-1904
61	8-12-42	DAVID A HOSKINSON	RT 2 BOX 9 WEST UNION WV 26456	304-873-1904
62	8-12-49	WVA DEPT OF HIGHWAYS	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111
63	8-12-47	STATE OF WVA ROAD COMM	NO ADDRESS FOUND	NOT LISTED
64	8-12-46	WEST VIRGINIA DEPT OF TRANS, DIV OF HIGHWAYS	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111
65	8-12-43	YWANA P MCDANIEL	RT 2 BOX 8A WEST UNION WV 26456	304-873-2464
66	8-12-45	WEST VIRGINIA DEPT OF TRANS, DIV OF HIGHWAYS	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111

67	8-12-44	JOHN SAMUEL AND PEGGY JUNE SMITH	143 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
68	8-12-41	TWANA P MCDANIEL	RT 2 BOX 8A WEST UNION WV 26456	304-873-2464
69	8-12-38	TWANA P MCDANIEL	RT 2 BOX 8A WEST UNION WV 26456	304-873-2464
70	8-12-39	TWANA P MCDANIEL	RT 2 BOX 8A WEST UNION WV 26456	304-873-2464
71	8-12-10	JOHN SAMUEL AND PEGGY JUNE SMITH	143 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
72	8-12-48	WVA DEPT OF HIGHWAYS	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111
73	8-12-BLANK	OWNERS IDENTIFIED BELOW		
74	8-12-16	GEORGE A AND JANICE K BROOKS	2015 SMITHTON RD PO BOX 7 SMITHBURG WV 26436	304-873-2704
75	8-12-17	GEORGE M AND SANDRA WYCKOFF	RT 2 BOX 25A-1 WEST UNION WV 26456	304-873-1169
76	8-12-17.5	SCHAWN T WYCKOFF	RT 2 BOX 25AA WEST UNION WV 26456	NOT LISTED
77	8-12-17.4	GEORGE SCOTT WYCKOFF	RT 2 BOX 25A-1 WEST UNION WV 26456	304-873-2954
78	8-12-18	DOUGLAS C AND SUSAN E LANDERS	RT 2 BOX 25 A 2 WEST UNION WV 26456	304-873-2213
79	8-12-35	SUSAN ELAINE LANDERS AND KATHERYN JANE GARRISON	RT 2 BOX 25A2 WEST UNION WV 26456	NOT LISTED
80	8-12-17.1	NORTH COAST ENERGY	PO BOX 143 WEST UNION WV 26456	304-873-3590
81	8-12-17.6	GEORGE M AND SANDRA WYCKOFF	RT 2 BOX 25A-1 WEST UNION WV 26456	304-873-1169
82	8-12-16.1	RAYMOND FRAZER	1 FIRST AMERICAN WAY WESTLAKE TX 76262	NOT LISTED
83	8-12-16	GEORGE A AND JANICE K BROOKS	2015 SMITHTON RD PO BOX 7 SMITHBURG WV 26436	304-873-2704
84	8-12-54	SAMUEL HILEMAN	RT 1 BOX 78 WEST UNION WV 26456	304-873-1082
85	8-12-68.2	ELLEN L BARNES	1307 LIBERTY ST PARKERSBURG WV 26101	304-428-4486
86	8-12-53	ELLEN L BARNES	1308 LIBERTY ST PARKERSBURG WV 26101	304-428-4486
87	8-12-56	DOONIVAN L CUMPTON	RT 1 BOX 419 GREENWOOD WV 26415	NOT LISTED
88	8-12-57	VIRGIL J MAXINE SCHOOLCRAFT	RT 2 BOX 18 WEST UNION WV 26456	304-873-1760
89	8-12-60	VIRGIL J MAXINE SCHOOLCRAFT	RT 2 BOX 18 WEST UNION WV 26456	304-873-1760

90	8-12-59	SPENCER ENTERPRISES, LLC	PO BOX 143 WEST UNION WV 26456	304-873-1602
91	8-12-67	RONALD B SPENCER	PO BOX 143 WEST UNION WV 26456	304-873-1554
92	8-12-67.1	WVA DEPT OF HIGHWAYS	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111
93	8-12-66.1	DAVID E BOWYER	RT 1 BOX 459B SALEM WV 26426	304-782-3677
94	8-12-66	ELLEN L BARNES	1307 LIBERTY ST PARKERSBURG WV 26101	304-428-4486
95	8-12-52	SHIRLEY SHULTZ	PO BOX 604 BROADWAY VA 22815	NOT LISTED
96	8-12-51	FRANKLIN L BUTLER	22 GARTON PLAZA WESTON WV 26452	NOT LISTED
97	8-12-14	HAROLD F ROBISON	990B HORTON RD NEW HILL NC 27562	NOT LISTED
98	8-12-23	ROSSIE AND EVA LOWERY	990B HORTON RD NEW HILL NC 27562	919-352-7247
99	09	NO OWNER COULD BE IDENTIFIED		
100	8-11-42	JUSTIN E AND MELISSA A HOLTZ	112 HOWELL ST WEST UNION WV 26456	304-873-2460
101	8-11-42.1	JAMES D FRIEND	103 HOWELL ST WEST UNION WV 26456	304-873-3010
102	8-11-44	JAMES E AND RUTH E MCELROY	113 HOWELL ST WEST UNION WV 26456	NOT LISTED
103	8-11-45	ROSALEE S AND ONDA L WILSON	93 WYNDHAM KNOB PARKERSBURG WV 26104	304-485-2056
104	8-11-46	RICHARD M AND LORETTA C BOYCE	HC 67 BOX 3 WEST UNION WV 26456	304-873-1355
105	8-11-42.2	MARY WELCH	PO BOX 4308 PARKERSBURG WV 26104	304-428-9835
106	8-11-47	RICHARD M AND LORETTA C BOYCE	HC 67 BOX 3 WEST UNION WV 26456	304-873-3797
107	8-11-24.1	JOANN B WATERS	1805 WESTWOOD LN GEORGETOWN TX 78628	512-853-9799
108	8-11-23	ANDREW G MANCUSO	PO BOX 51 WEST UNION WV 26456	304-873-1318
109	8-11-22	KIMBERLY ANN WALKER	138 BAKER LN SISTERSVILLE WV 26175	NOT LISTED
110	8-11-16	KIMBERLY ANN WALKER	139 BAKER LN SISTERSVILLE WV 26175	NOT LISTED
111	8-11-24	CLARENCE RAY BONNELL	202 GEORGE ST WEST UNION WV 26456	NOT LISTED
112	8-11-40	CLARENCE RAY BONNELL	203 GEORGE ST WEST UNION WV 26456	NOT LISTED

113	8-11-9	SHEILA JANE LYNCH BUCK	115 REYNOLDS ST SPENCER WV 25276	304-972-2793
114	8-34-INSERT	OWNERS IDENTIFIED BELOW		
115	8-11-68	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
116	8-11-65.1	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
117	8-11-65	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
118	8-11-64	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
119	8-11-63	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
120	8-11-62	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
121	8-11-61	NATIONS CREDIT FINANCIAL	111 VIRGINIA AVE FAIRMONT WV 26554	NOT LISTED
122	8-11-60	KATHRYN J WEEKLEY	HC 67 BOX 10 WEST UNION WV 26456	304-873-2448
123	8-11-59	KATHRYN J WEEKLEY	HC 67 BOX 10 WEST UNION WV 26456	304-873-2448
124	8-11-58	JANET M ESPOSITO	RT 1 BOX 111 FAIRMONT WV 26554	304-534-4048
125	8-11-57	PATRICK H BONNELL	3434 INDIAM FORK RD NEW MILTON WV 26411	304-873-3683
126	8-11-56	ROBERT O BONNELL	HCR 67 BOX 8 WEST UNION WV 26456	304-873-2248
127	8-11-55	ROBERT O BONNELL	HCR 67 BOX 8 WEST UNION WV 26456	304-873-2248
128	8-11-54	NEVA I WELCH	RT 1 BOX 187 WEST UNION WV 26456	NOT LISTED
129	8-11-53	SHELLY G BONNELL	HC 67 BOX 6 WEST UNION WV 26456	304-873-3672
130	8-11-52	DANIEL L FRIEND	108 SISTERSVILLE PIKE WEST UNION WV 26456	304-873-1884
131	8-11-51	ROBERT L HALL	HC 67 BOX 4 WEST UNION WV 26456	304-873-1948
132	8-11-50	ERIC AND FLORENCE WESCOTT	854 BENNETTS RUN RD LUMBERPORT WV 26386	304-783-4762
133	8-11-49	NELLIE B DAUGHERTY	PO BOX 294 WEST UNION WV 26456	NOT LISTED
134	8-11-48	NELLIE B DAUGHERTY	PO BOX 294 WEST UNION WV 26456	NOT LISTED
135	8-11-67	LESLEY PARTITE	HC 67 BOX 1 WEST UNION WV 26456	304-873-2070

136	8-11-68	EARL R AND MARY M DAUGHERTY	PO BOX 341 WEST UNION WV 26456	304-873-2258
137	8-11-69.1	FRANKLIN L BUTLER	22 GARTON PLAZA WESTON WV 26452	304-269-2538
138	8-11-25	HELEN BUFF	PO BOX 3003 HADDONFIELD NJ 08033	NOT LISTED
139	8-11-25	HELEN BUFF	PO BOX 3003 HADDONFIELD NJ 08034	NOT LISTED
140	8-11-69	FRANKLIN L BUTLER	22 GARTON PLAZA WESTON WV 26452	304-269-2538
141	8-11-26	KAREN M IRELAND	342 IRELAND RD PULLMAN WV 26421	304-349-2957
142	8-11-25.1	MARVIN L PHILLIPS	254 PEACOCK LN FOLLANSBIE WV 26037	NOT LISTED
143	8-11-70	FOUR LEAF LAND COMPANY	PO BOX 341 WEST UNION WV 26456	304-873-2258
144	8-12-63	KAREN M IRELAND	342 IRELAND RD PULLMAN WV 26421	304-349-2957
145	8-11-80	KAREN M IRELAND	343 IRELAND RD PULLMAN WV 26421	304-349-2957
146	8-34-INSERT	OWNERS IDENTIFIED BELOW		
147	8-12-1	EARLDENE SPENCER	PO BOX 143 WEST UNION WV 26456	304-873-1554
148	8-12-4	SHARON E AND RONALD J WALKER	HC 67 BOX 28 WEST UNION WV 26456	304-873-2525
149	8-12-6	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
150	8-8-45	TENSIL O DAVIS	HC 67 BOX 32A WEST UNION WV 26456	NOT LISTED
151	8-12-7	HAROLD F ROBISON	9908 HORTON RD NEW HILL NC 27562	NOT LISTED
152	8-12-23	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
153	8-12-24	HAROLD F ROBISON	9908 HORTON RD NEW HILL NC 27562	NOT LISTED
154	8-12-99	JOHN SAMUEL AND PEGGY JUNE SMITH	142 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
155	8-12-9	JOHN SAMUEL AND PEGGY JUNE SMITH	143 N SIXTH AVE PADEN CITY WV 26159	304-337-9067
156	8-12-67	RONALD B SPENCER	PO BOX 143 WEST UNION WV 26456	304-873-1554
157	8-12-67.1	WVA DEPT OF HIGHWAYS	STATE CAPITOL BLDG S CHARLESTON WV 25305	304-558-3111
158	8-12-74	WV RAILROAD MAINTENANCE AUTHORITY	PO BOX 470 MOOREFIELD WV 26836	304-538-2305

159	8-12-96	DALE KEPLINGER	304 FRONT ST WEST UNION WV 26456	304-873-1390
160	8-12-69.3	SMITHBURG VOLUNTEER FIRE DEPT.	93 MARIE STREET WEST UNION WV 26456	304-873-1391
161	8-12-68	SPENCER ENTERPRISES, LLC	PO BOX 143 WEST UNION WV 26456	304-873-1602
162	8-12-68.2	WVA DEPT OF HIGHWAYS	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111
163	8-12-INSERT	OWNERS IDENTIFIED BELOW		
164	8-12-INSERT	OWNERS IDENTIFIED BELOW		
165	8-12-72.15	TOWN OF WEST UNION	TOWN OF WEST UNION WEST UNION WV 26456	304-873-3379
166	8-12-72.3	ARTHUR L CALHOUN	BOX 6 SMITHBURG WV 26436	304-873-1909
167	8-12-INSERT	OWNERS IDENTIFIED BELOW		
168	8-12-72.6	LARRY T AND THELMA F GONZALEZ	PO BOX 208 SMITHBURG WV 26436	304-873-3660
169	8-12-96	DALE KEPLINGER	304 FRONT STREET WEST UNION WV 26456	304-873-1390
170	8-12-74	WV RAILROAD MAINTENANCE AUTHORITY	PO BOX 470 MOOREFIELD WV 26836	304-538-2305
171	8-12-73.1	TOWN OF WEST UNION	TOWN OF WEST UNION WEST UNION WV 26456	304-873-3379
172	8-12-73	SPURLOCK ENTERPRISES	PO BOX 4010 CLARKSBURG WV 26302	NOT LISTED
173	8-12-25	WVA DEPT OF HIGHWAYS	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111
174	8-12-50	KEY OIL COMPANY	2567 SPRING HILL RD STAUNTON VA 24401	434-979-1380
175	8-11-26	KAREN M IRELAND	342 IRELAND RD PULLMAN WV 26421	304-349-2957
176	8-11-25	HELEN BUFF	PO BOX 3003 HADDONFIELD NJ 08033	NOT LISTED
177	8-27-1	ROBERT ALLAN AND PATRICIA IRENE MARTIN	PO BOX 52 SMITHBURG WV 26436	304-873-1471
178	8-27-1.1	JOSEPH LEROY TOWNER	PO BOX 21 SMITHBURG WV 26436	304-873-1089
179	8-27-2	JOSEPH LEROY TOWNER	PO BOX 21 SMITHBURG WV 26436	304-873-1089
180	8-27-3	MARK A AND APRIL L RICHARDS	RT 2 BOX 25A 3A WEST UNION WV 26456	304-659-3094
181	8-27-4	MARK A AND APRIL L RICHARDS	RT 2 BOX 25A 3A WEST UNION WV 26456	304-659-3094

182	8-27-5	ROBERT L AND MARTHA E MOORE	PO BOX 1 SMITHBURG WV 26436	304-873-2378
183	8-27-6	SPENCER ENTERPRISES, LLC	PO BOX 143 WEST UNION WV 26456	304-873-1602
184	8-27-7	ANTHONY AND RHONDA GARVIN	PO BOX 2 SMITHBURG WV 26456	NOT LISTED
185	8-27-7.1	DALE W KEPLINGER II	304 FRONT STREET WEST UNION WV 26456	304-873-1390
186	8-27-7.2	DEUTSHE BANK NATIONAL TRUST COMPANY	PO BOX 24696 COLUMBUS OH 43224	
187	8-27-7.3	DEUTSHE BANK NATIONAL TRUST COMPANY	PO BOX 24696 COLUMBUS OH 43224	
188	8-27-7.4	ANTHONY AND RHONDA GARVIN	PO BOX 2 SMITHBURG WV 26456	NOT LISTED
189	8-27-8	KAREN COSBY ADAMS	PO BOX 42 SMITHBURG WV 26436	304-873-2670
190	8-27-8.1	DENVER W AND MARY COX	BOX 66 SMITHBURG WV 26436	304-873-1939
191	8-27-8.2	VIRGINIA MARGUERITE WILLIAMS	PO BOX 205 SMITHBURG WV 26436	304-873-2770
192	8-27-9	ALFRED L AND WILMA DOTSON	PO BOX 54 SMITHBURG WV 26436	304-873-3543
193	8-27-9.1	ALFRED L AND WILMA DOTSON	PO BOX 54 SMITHBURG WV 26436	304-873-3543
194	8-27-10	DENZIL AND KATHERYN CORK	PO BOX 35 SMITHBURG WV 26436	304-873-1229
195	8-27-11	JOSEPH L AND JENNY S DOTSON	PO BOX 113 SMITHBURG WV 26436	304-873-2182
196	8-27-12	VERNON LEROY RANDOLPH	PO BOX 12 SMITHBURG WV 26436	304-873-3189
197	8-27-13	CHARLES AND CAROLYN CHILDERS	RT 5 BOX 1320 SALEM WV 26426	304-782-1721
198	8-27-14	DEUTSHE BANK NATIONAL TRUST COMPANY	PO BOX 24696 COLUMBUS OH 43224	
199	8-27-15	GEORGE L GAGNON	RT 1 BOX 312 WEST UNION WV 26456	NOT LISTED
200	8-27-16	DONNA E AND DAVID D PARSONS	212 N PENN AVE HARRISVILLE WV 26362	304-643-2797
201	8-27-17	FREDA COX AND BARBARA AN SHAVATT	1026 BOOM CT ANNAPOLIS MD 21401	301-445-5672
202	8-27-18	MATTHEW C AND TERESA L KIMBALL	PO BOX 131 SMITHBURG WV 26436	304-873-2688
203	8-27-19	DENVER F R AND PATRICIA STUBBS	PO BOX 24 SMITHBURG WV 26436	304-873-1543
204	8-27-20	VERNON LEROY RANDOLPH	PO BOX 12 SMITHBURG WV 26436	304-873-3189

205	8-27-21	VERNON LEROY RANDOLPH	PO BOX 12 SMITHBURG WV 26436	304-873-3189
206	8-27-22	DEUTSHE BANK NATIONAL TRUST COMPANY	PO BOX 24696 COLUMBUS OH 43224	
207	8-27-23	SAMUEL HILEMAN	RT 1 BOX 78 WEST UNION WV 26456	304-873-1082
208	8-27-24	MARK B SMITH	PO BOX 213 SMITHBURG WV 26436	NOT LISTED
209	8-27-25	GERAL W JR AND CRYSTAL MARIE KNICELEY	PO BOX 83 SMITHBURG WV 26436	304-666-1031
210	8-27-26	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663
211	8-27-26.1	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663
212	8-27-26.2	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663
213	8-27-6.3	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663
214	8-27-6.4	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663
215	8-27-6.5	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663
216	8-27-6.6	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663
217	8-27-27	SUZETTA L AND JEREMY D CAMPBELL	210 JULIEANNE ST SMITHBURG WV 26436	304-666-1046
218	8-27-27.1	TRUSTEES OF THE SMITHBURG U M CHURCH	SMITHBURG WV 26436	304-263-2788
219	8-27-28	CHURCH U B SMITHBURG WV	SMITHBURG WV 26436	304-263-2788
220	8-27-28.1	E U B CHURCH	SMITHBURG WV 26436	NOT LISTED
221	8-27-29	VERNON LEROY RANDOLPH	PO BOX 12 SMITHBURG WV 26436	304-873-3189
222	8-27-30	METHODIST CHURCH OF SMITHBURG	SMITHBURG WV 26436	304-263-2788
223	8-27-31	WILLIAM W AND NORMA SUTTON	PO BOX 13 SMITHBURG WV 26436	304-873-2518
224	8-27-32	WILLIAM W AND NORMA SUTTON	PO BOX 13 SMITHBURG WV 26436	304-873-2518
225	8-27-33	BOBBY L AND TAMMY JONES	PO BOX 54 WEST UNION WV 26436	NOT LISTED
226	8-27-34	WILLIAM J PRATT	PO BOX 124 SMITHBURG WV 26436	304-873-2554
227	8-27-35	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX 8 WEST UNION WV 26456	304-873-1663

228	8-27-36	KITTY ROSE PARSONS	5920 HWY 79 GUSTON KY 40142	502-966-8950
229	8-27-36.1	ALICE ELIZABETH SWISHER	PO BOX 102 WEST UNION WV 26456	NOT LISTED
230	8-27-37	BOARD OF EDUCATION	SISTERSVILLE PIKE WEST UNION WV 26456	304-873-2300
231	8-27-38	SAMUEL S AND WAYNETTA D RICHARDS	PO BOX 93 SMITBURG WV 26436	304-873-1899
232	8-27-39	GERAL W JR AND CRYSTAL MARIE KNICELEY	PO BOX 92 SMITBURG WV 26436	304-666-1031
233	9-27-40	CLEM L AND LOIS E MURPHY	RT 2 BOX 61 WEST UNION WV 26456	304-873-1362
234	8-27-41	CHARLES JR AND CAROLYN CHILDERS	PO BOX 56 SMITBURG WV 26436	304-873-2276
235	8-27-42	SPENCER ENTERPRISES, LLC	PO BOX 343 WEST UNION WV 26456	304-873-1602
236	8-27-42	HARLIN ADAMS	RT 1 BOX 158 SALEM WV 26426	304-782-2773
237	8-27-43	TRUSTEES OF WESLEYAN METHODIST	SMITBURG WV 26436	304-263-2788
238	8-27-44	TERRY D AND EDITH WISE	PO BOX 572 CLAY WV 25043	304-854-1359
239	8-27-44.1	ROCK RUN ALLENGHENY WESLEYAN CHURCH	PO BOX 72 SMITBURG WV 26436	NOT LISTED
240	8-27-45	JANET DAVID (WHITEHAIR)	PO BOX 174 WEST UNION WV 26456	NOT LISTED
241	8-27-46	CRYSTAL MOORE / WVHDF	814 VIRGINIA ST EAST CHARLESTON WV 25301	304-391-8600
242	8-27-47	CRYSTAL MOORE / WVHDF	814 VIRGINIA ST EAST CHARLESTON WV 25301	304-391-8600
243	8-27-48	JOHN M JOHNSON	PO BOX 82 SMITBURG WV 26436	NOT LISTED
244	8-27-49	EFFIE HEFLIN C/O JAMES HEFLIN	131 ALLENS RUN RD DAVISVILLE WV 26142	304-485-6669
245	8-27-50	STATE OF WV ROAD COMM	STATE CAPITOL BLDG 5 CHARLESTON WV 25305	304-558-3111
246	8-27-51	DODDRIDGE COUNTY PARK AND RECREATION COMMISSION	NM ST RT BOX B WEST UNION WV 26456	304-873-1683
247	8-34-2	GAIL L AND GLENDA JO LAMBERT	RT 2 BOX 166 WEST UNION WV 26456	304-873-2624
248	8-34-3	SPENCER ENTERPRISES, LLC	PO BOX 143 WEST UNION WV 26456	304-873-1602
249	8-34-4	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
250	8-34-5	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576

251	8-34-6	W W HRS GASKINS AND JUSTIN HENDERSON	PO BOX 100 MEADOWBROOK WV 26104	304-592-1802
252	8-34-7	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
253	8-34-8	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
254	8-34-9	ROY F RUPPERT C/O R MICHAEL RUPPERT	122 TIGHTS LAM LOUDON TN 37774	304-458-1274
255	8-34-10	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
256	8-34-11	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
257	8-34-12	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
258	8-34-13	WVA DEPT OF HIGHWAYS	STATE CAPITOL BLDG S CHARLESTON WV 25305	304-558-3111
259	8-34-14	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
260	8-34-15	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
261	8-34-16	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
262	8-34-17	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
263	8-34-18	OLIVE F AND C UNDERWOOD	RT 2 BOX 304 SALEM WV 26426	304-782-4265
264	8-34-18	JUANITA MCCLAIN	139 GREEN ST CLARKSBURG WV 26301	304-622-2911
265	8-34-19	KAY DAVIS	HC 69 BOX 46B MIDDLEBOURNE WV 26149	304-758-4678
266	8-34-20	OVID LEE PERNELL AND JENNIFER DOTSON	HC 67 BOX 17C WEST UNION WV 26456	304-873-2773
267	8-34-21	OVID LEE PERNELL AND JENNIFER DOTSON	HC 67 BOX 17C WEST UNION WV 26456	304-873-2773
268	8-34-22	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
269	8-34-23	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
270	8-34-24	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
271	8-34-25	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
272	8-34-26	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
273	8-34-27	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576

274	8-34-28	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
275	8-34-29	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
276	8-34-30	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
277	8-34-31	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
278	8-34-32	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
279	8-34-33	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
280	8-34-34	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
281	8-34-35	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
282	8-34-36	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
283	8-34-37	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
284	8-34-38	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
285	8-34-39	ROY F RUPPERT C/O R MICHAEL RUPPERT	122 TIGHTSI LAN LOUDON TN 37774	304-458-1274
286	8-34-40	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
287	8-34-41	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
288	8-34-42	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
289	8-34-43	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
290	8-34-44	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
291	8-34-45	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
292	8-34-46	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
293	8-34-47	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
294	8-34-48	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
295	8-34-49	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
296	8-34-50	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576

297	8-34-51	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
298	8-34-52	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
299	8-34-53	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
300	8-34-53.1	CHERYL L BRUNNER	HC 67 BOX 20 WEST UNION WV 26456	304-873-1440
301	8-34-54	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
302	8-34-55	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
303	8-34-56	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
304	8-34-57	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
305	8-34-58	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
306	8-34-59	GAIL L AND GLENDA JO LAMBERT	RT 2 BOX 166 WEST UNION WV 26456	304-873-2624
307	8-34-60	GAIL L AND GLENDA JO LAMBERT	RT 2 BOX 166 WEST UNION WV 26456	304-873-2624
308	8-34-61	GAIL L AND GLENDA JO LAMBERT	RT 2 BOX 166 WEST UNION WV 26456	304-873-2624
309	8-34-62	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
310	8-34-63	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
311	8-34-64	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
312	8-34-65	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
313	8-34-66	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
314	8-34-67	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
315	8-34-68	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
316	8-34-69	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
317	8-34-70	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
318	8-34-71	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
319	8-34-72	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576

320	8-34-73	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
321	8-34-74	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
322	8-34-75	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
323	8-34-76	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
324	8-34-77	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
325	8-34-78	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
326	8-34-79	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
327	8-34-80	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
328	8-34-81	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
329	8-34-82	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
330	8-34-83	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
331	8-34-84	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
332	8-34-85	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
333	8-34-86	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
334	8-34-87	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
335	8-34-88	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
336	8-34-89	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
337	8-34-90	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
338	8-34-91	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
339	8-34-92	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
340	8-34-93	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
341	8-34-94	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
342	8-34-95	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576

343	8-34-96	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
344	8-35-97	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
345	8-34-98	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
346	8-34-99	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
347	8-34-100	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
348	8-34-101	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
349	8-34-102	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
350	8-34-103	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
351	8-34-104	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
352	8-34-105	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
353	8-34-106	ROSSIE AND EVA LOWERY	9908 HORTON RD NEW HILL NC 27562	919-362-7247
354	8-34-107	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
355	8-34-108	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
356	8-34-109	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
357	8-34-110	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
358	8-34-111	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
359	8-34-112	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
360	8-34-113	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
361	8-34-114	WILLIAM GEORGE WHITEHILL	C P STAR ROUTE BOX 14 WEST UNION WV 26456	304-873-2576
362	8-34-115	DAVID LEE PERNELL AND JENNIFER DOTSON	HC 67 BOX 17C WEST UNION WV 26456	304-873-2773
363	8-34-116	W W HRS GASKINS AND JUSTIN HENDERSON	PO BOX 100 MEADOWBROOK WV 26104	304-592-1802

Section III: Well Work

This Attached Plan will be reviewed with all employees on the work site prior to beginning their work. Any required changes will be inserted into this Plan and made a part of the Plan after being approved by WVOOG.

Documentation

A safety training attendance sheet must be completed for all EQT required training. Originals must be submitted to the EH&S Department and copies of the attendance sheets shall be on-site to serve as documentation of training.

Plan Assimilation and Dissemination

- The Supervisor of Environmental and Safety - Drilling, or their designee, shall be responsible for providing a copy of this plan to the local emergency planning committee (LEPC) or county emergency services (CES) office within at least 7 days from land disturbance or well work.
 - The LEPC or CES representative will sign a receipt (See Appendices) documenting this.
- A copy of this Plan will be available in the following locations:
 - In the on-site mailbox
 - In the On-Site Drilling or Completions Specialist office.
 - West Virginia DEP Office of Oil and Gas
 - LEPC or CES
 - Office of the assigned Environmental and Safety Coordinators
 - Electronically in EQT *Well File Library* (as part of the permit document).

Personal Protective Equipment (PPE)

- At a minimum, all personnel on-site shall wear the following PPE:
 - Hardhat
 - Safety glasses with side shields
 - Hard toe boots
- Additional PPE may be required based on unique job hazards such as:
 - Flame Resistance Clothing (FRC)
 - High visibility vest
 - Hearing Protection
- Additional PPE may be assigned dependent on the site conditions and shall be the discretion of the on-site specialist and the Environmental and Safety Department.
- All additional PPE requirements will be communicated to all personnel.

Detail of Well Work, Drilling Operations

1. Review pertinent well data.
2. MIRU drilling rig.
3. Install riser and air bowl.
4. Drill surface or mine string hole to required depth on air / foam / water based mud.
 - Mine string must not be more than 100' deeper than mine void.
 - Surface casing must be set at least 30' below the deepest fresh water.
5. Run casing to programed depth. Centralize per requirements.
6. Cement to surface per regulation.
7. WOC 8 hrs.
8. MIRU ELU and run bond log.
9. Pressure test casing to 20% over Maximum Anticipated Surface Pressure (MASP).
10. If separate mine string was required, prepare riser for the drilling of fresh water protective hole section as follows:
 - a. TIH with drilling assembly.
 - b. Drill out mine string and to section TD.
 - c. Run water protective string (surface casing) to prescribed depth per regulation.
 - d. Cement casing to surface per regulation.
 - e. Pressure test casing to 20% over MASP.
 - f. WOC 8 hrs.
11. MIRU ELU and run bond log.
12. Install and test wellhead per manufacturer's specification.

13. Install BOP stack.
14. Test BOP's
 - Annular Preventer to 70% MAWP
 - Ram Preventers to 80% MAWP
15. MU drilling assembly
16. Drill out surface casing and to planned section TD.
17. Run intermediate casing to programmed depth.
18. Cement intermediate casing to surface per regulation.
19. Pressure Test casing 20% over MASP.
20. WOC 8 hrs.
21. MIRU ELU and run bond log.
22. MU drilling assembly
23. Drill out casing. Perform formation Integrity test to adequate pressure gradient.
24. Drill production hole to KOP. Trip for directional drilling assembly.
25. MU directional assembly, TH and drill curve and lateral section of production hole with drilling assembly changes as necessary to achieve the planned wellbore trajectory.
26. Run production casing to programmed depth.
27. Cement production casing per regulation. Planned TOC will be 500' above the intermediate casing shoe.
28. WOC 8 hrs.
29. Nipple down BOP's and install tubing head. Test tubing head voids per manufacturers recommendation.
30. Install dry hole flange. RDMO drilling rigs.

First Stage Completion Work

1. Move in and rig up to run bond log from attainable total depth to above cement top
2. Install 10k frac valve.

Fracture Stimulation

3. Install two 10K frac valves with a flow cross between them, and a goathead with frac iron. Rig up frac iron and test surface equipment.
4. Open well and test production casing; open the toe popper.
5. Rig up wire line and pump down plug and guns to perforate Stage one. Pump down operations are run under lubricator and pressure control.
6. Frac stage one.
7. Rig up wire line and pump down plug and guns to perforate subsequent stages. Pump down operations are run under lubricator and pressure control.
8. Set plug, perforate and frac subsequent stages.
9. Rig down frac equipment and secure location. Lubricate Back Pressure Valve into B section. Remove one 10K frac valve and flow cross. Install dry hole tree as second barrier

Frac Isolation Plug Drill Out Procedure

10. Install annular bop, pipe and blind rams. Rig up Snubbing unit and service rig, or coiled tubing unit. Install flow cross and flow back equipment and pressure test. Remove back pressure valve.
11. Run in hole with tubing and bottomhole assembly and drill all plugs. Returns are taken to the gas separator, gas buster and/or tanks/pits. Gas is sent down sales line or flared. Pressures are maintained at levels below the operating pressure of snubbing unit components.
12. Rig down snubbing unit and rig or coiled tubing unit.
13. Flow back well with gas to sales or flare until well is stabilized.
14. Install Back pressure valve and remove frac valves. Install production tree and lubricate out Back pressure valve. Turn over to production.

Production Operations

15. Install containment, production equipment, metering equipment, and linkage per program.
16. Test safety systems.
17. Turn well to sales.

Section IV: Chemical Inventory & SDS

Safety Data Sheets (SDS):

SDS for all materials and chemicals on-site will be maintained and readily available at the well site. Copies of these SDS will be kept in the EOT On-site Offices, or be available on-line and be the responsibility of the EOT On-site Specialist. An electronic copy of the Anticipated SDS will be submitted to the Department as well.

Mud Information

Mud Usage	
Mix Mud Amount	2000 - 3500 bbls
Mud Weights	8.5 - 14.8 ppg
Volume Mixing Water	275 - 2750 bbls

There will be one induction style mud hopper on location for mixing the fluid.

Below table contains the inventory of on-site materials for mixing mud.

Product Name	General Description	Possible Inventory	Package Size
ALDRIC OG G	bacteria prevention	0 - 23	5 gallon can
BARABLOK	fluid loss additive	0 - 100	50 lb sack
BARACARE 30, 150, 600	lost circulation material	0 - 150	50 lb sack
BARACOR 700	corrosion inhibitor	0 - 4	55 gallon drum
BARA-DEFAM W300	mud defoamer	0 - 32	5 gallon can
BARAZAN-B PLUS	viscosifier	0 - 60	25 lb sack
BAROFIBRE	lost circulation material	0 - 100	25 lb sack
BAROID 41	weighting agent	0 - 80	bulk tons
BARO-SEAL COARSE	lost circulation material	0 - 100	50 lb sack
bicarbonate of soda	calcium control	0 - 49	50 lb sack
calcium chloride powder	salinity control	0 - 150	50 lb sack
caustic soda	pH/alkalinity control	0 - 60	50 lb sack
caustic acid	pH/alkalinity control	0 - 25	50 lb sack
CESTRADIT	fluid loss additive	0 - 100	50 lb sack
CELTREAT	settling agent/emulsifier	0 - 18	5 gallon can
CE-MUD	shale inhibitor	0 - 10	5 gallon can
CELTONE V	viscosifier	0 - 50	50 lb sack
CE-SUFFERBIA	emulsifier	0 - 30	55 gallon drum
lime	pH/alkalinity control	0 - 50	50 lb sack
N-SEAL	lost circulation material	0 - 100	50 lb sack
NOF-LUBE	lubricant	0 - 38	5 gallon can
OMC 42	mud conditioner	0 - 4	55 gallon drum
PAC-4	fluid loss additive	0 - 90	50 lb sack
QUICK-THIN PLUS	mud thinner	0 - 100	50 lb sack
RH-MOD L	mud conditioner	0 - 8	55 gallon drum
RH-63	mud conditioner	0 - 8	55 gallon drum
soda Ash	salinity control	0 - 25	50 lb sack
sodium chloride	salinity control	0 - 30	2,000 lb sack
STEFSEAL 600	lost circulation material	0 - 200	50 lb sack
SUSPENTONE	suspension agent	0 - 100	50 lb sack
SynOH	base oil	0 - 100	55 lbs (2 gal)
WALL-MUT MEDIUM	lost circulation material	0 - 100	50 lb sack
ZECCOL	viscosifier	0 - 100	50 lb sack

Section V: BOP and Well Control

BOP equipment and assembly installation schedule:

BOP Equipment						
Size (in)	Operation	Hole Section	Type	Pressure Class	Test Pressure (psi)	Testing Frequency
13-5/8"	Drilling	Intermediate	Annular	3M	2100	Initial
13-5/8"	Drilling	Pilot	Annular	3M	2100	Initial, Weekly, Trip
13-5/8"	Drilling	Production	Annular	5M	3500	Initial, Weekly, Trip
13-5/8"	Drilling	Production	Blind	5M	4000	Initial, Weekly, Trip
13-5/8"	Drilling	Production	Pipe	5M	4000	Initial, Weekly, Trip
7-1/16"	Completions	Production	Cameron U's	5M	5000	Initial
13-5/8"	Drilling	Pilot (Onondaga Tag)	Annular	5M	4000	Initial, Weekly, Trip

Wellhead Detail

Size (in)	Type	M.A.W.P. (psi)
13-3/8" SOW x 13-5/8" 5M	Multi-bowl Well Head	5,000
13-5/8" 5M x 7-1/16" 10M	Tubing Head	10,000
2-1/16" 5M	Christmas Tree	5,000

Well Control Trained Personnel:

- Drilling
 - EQT On-Site Specialist – 2 on rotating hitches.
 - Contract Group's – Tool Pusher & Drillers
- Completions & Production
 - EQT On-Site Specialist

Notification Procedure

Significant Event Notifications

- A detailed record of significant drilling events will be recorded in the EQT Production Well Log Book.
- In addition to the record above, the local inspector of the WV DEP Office of Oil and Gas and Supervisor of EH&S will be notified by the EQT On-Site Specialist for the following events:
 - Lost Circulation
 - Encounter of Hydrogen Sulfide Gas
 - *Immediate notification is required of any reading of Hydrogen Sulfide Gas greater than 10ppm*
 - Fluid Entry
 - Abnormal Pressures
 - Blow-outs
 - Significant kicks
- Contact information can be found in Section II

Emergency Notifications

- In the event emergency response personnel and residents surrounding the work site are affected by specific events during the operation they must be notified as soon as possible by the On-site Specialist or their designee.

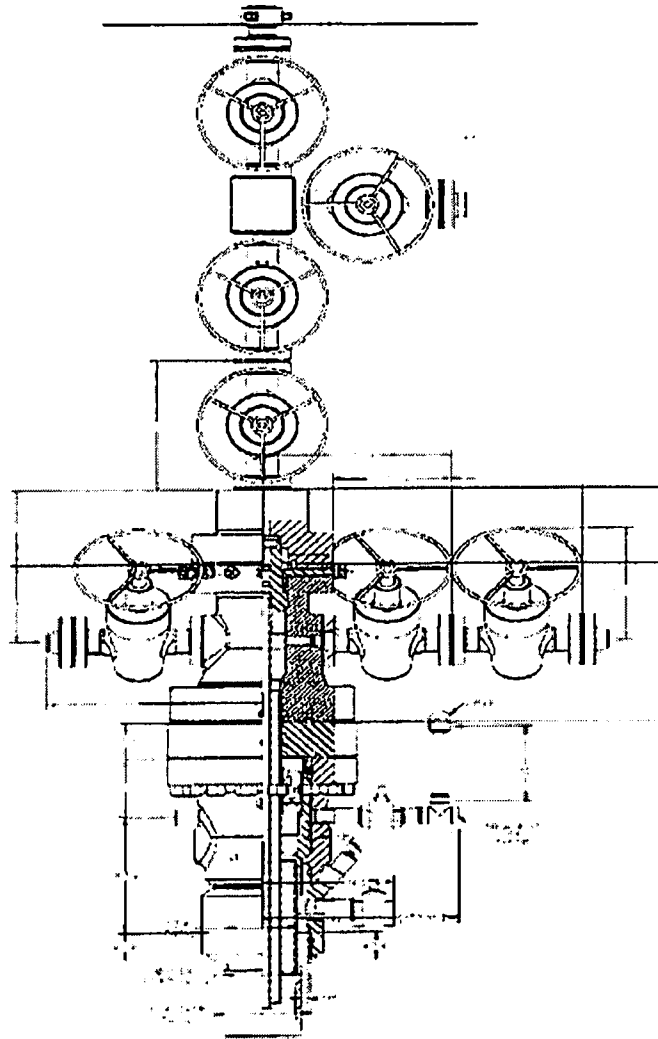
Firing Notifications

- The local fire department(s) and/or county dispatch centers must be notified immediately prior to the ignition of a flare.

Well Head Assembly Design

Written Description:

Multi-bowl wellhead assembly with a 13 3/8" 5M x 13 3/8" SOW wellhead. A 13 5/8" 5M x 11" 5M DSA is used between the wellhead and tubing head. The tubing head is 11" 5M x 7 1/16" 10M. The tree is 2 1/16" 5M. Picture of stack up below.



Well Kill Killing Operations

In a well control situation, all influxes are to be handled using the Wait-and-Weight Method or the Driller's Method. With the Wait-and-Weight Method, the influx is circulated out while kill weight mud is simultaneously circulated down the drill pipe and up the annulus. The heavy mud is circulated to the bit at a slow kill rate, and the drill pipe pressure is maintained according to a prepared table that gives drill pipe pressure for the corresponding strokes of kill mud pumped.

The Driller's Method is accomplished in two circulations using constant drill pipe pressure and maintaining constant pump speed. The drill pipe pressure is kept constant by adjusting the choke. Once the annulus is clear of the influx, the mud weight is adjusted to kill-weight. The kill-weight mud is then circulated to the bit using constant pump speed and drill pipe pressure step-down plan. When kill-weight mud has reached the bit, the FCP is maintained until the heavy mud has reached the surface.

Section VI: Hydrogen Sulfide

Purpose

The purpose of this plan is to insure the safety of the all on-site personnel as well as those residents in close proximity. Hazards associated with the possibility of H₂S encounters and the warning signs of H₂S exposure will be covered.

Scope

The policy is to consider every encounter with H₂S as potentially lethal until proven otherwise. Upon encountering H₂S, EOT employees or contractors(s) will determine the concentration of H₂S.

General Information

- Immediately upon suspicion or odor of H₂S on location the concentration shall be determined using properly functioning single or multi-gas detection devices which have a sensor calibrated to detect the presence of H₂S gas.
 - All readings should be documented along with the time they were obtained
 - All areas having a reading of greater than 10 ppm H₂S shall be evacuated until the area has been cleared of H₂S or properly trained personnel equipped with appropriate PPE arrive on location.
 - H₂S deadens the sense of smell; the presence or absence of H₂S odor is not an acceptable means for determining the presence of gas.
 - Never walk upwind or uphill towards any suspected source of H₂S; approach using a cross wind approach.
- Identify wind direction and evacuate personnel upwind and uphill of the leak; H₂S is heavier than air and will settle in low-lying areas.
- If necessary, the well will be shut in and the work will be stopped until adequate safety personnel and equipment have arrived on site.
- No work will take place until the appropriate personnel and equipment are in place.
- The primary considerations at this time will be:
 - H₂S concentration
 - Gas Volume
 - Weather Conditions
 - Dwellings in the area.

Personal Protective Equipment

- The EOT H₂S contractor will have an emergency trailer with SCBA's, additional gas detection equipment and other instrumentation and PPE required for appropriate response.
- All personnel on location; all personnel monitoring adjacent to the location; or all personnel associated with the operation, will be equipped with personal H₂S monitors.
- There will be a H₂S monitor located at the flow line exit, during the drilling of this well, as well as on the Rig Floor.
- This PPE shall be in addition to the PPE requirements listed in Section 1.0

Training

- Only personnel whom have been properly trained; or are qualified in the hazards of H₂S, will be allowed on location during operations that have encountered, or projected to encounter H₂S.
- There will be a safety briefing prior to start of each shift or tower and hazards and currently readings of H₂S will be documented on a TSM or JSA.

Briefing (Assembly) Areas

- Refer to Section III for specifics on Primary and Secondary Assembly Areas.
- Specific considerations for H₂S should include:
 - Windssocks or streamers for indication of wind direction.
 - Being upwind of harmful levels of H₂S
 - Avoiding low lying areas
 - Being upwind
- Signage will be utilized along the location road, or any other entrances to the location, if H₂S is encountered.

H₂S Response Team Contractors

- See Section II: Assigned Specialist Response Numbers for contact information.

Personnel

- See Section III: Accountability for information.

Emergency numbers

- See Section II emergency for contact information.

Site Access

- See Section III: Site Access for information.

Notifications

- The EQT H₂S Contractor will be notified at the following intervals if operations are occurring on a suspected H₂S location:
 - Pre-Spud Meeting
 - Spud Date
 - Bottom of 9 5/8"
 - 1000' Above Onondaga

Protection Zone Plans

Emergency Protection Zone Plan

- In the event of an emergency on the well site, the Emergency Coordinator, or his designee, shall determine protective zones to limit the risk of exposure to workers, local responders, and residents surrounding the work area.
- Life safety, impacts to the environment, and property conservation are priorities.
- The Emergency Coordinator shall determine these zones based on the following information on the scene:
 - Magnitude of the incident
 - Wind Direction
 - MSDS of applicable materials
 - Current and forecasted weather conditions
 - Topography and land conditions
 - Other influences specific to the incident
- Once established, these zones will be maintained until a determination is made by the Emergency Coordinator to alter or discontinue them.

Flowback Condensate Protection Zone Plan

- A pre-job meeting or contact will be performed with all parties prior to startup.
- Equipment and operational guidelines are:
 - Permit entry only 30' radius around gas buster tanks.
 - Signs posted around well site.
 - Gas detectors and condensate sticks will be on location and used.
 - Approved vendors only for condensate transfer to pre-approved sites.
 - Emergency response plan reviewed for either WV or PA operations.
 - EQT On-Site Completion Specialist (OCS) will be notified immediately of any liquids on the ground.
 - Only approved companies and vacuum trucks to be used to pick up fluids.
 - LEL meter usage verified and to be checked.
 - All ignition sources around well site will be reviewed.

Section VII: Flaring

Flaring Operations

Drilling

Flare Line Installation

The BOP equipment will all be located on the surface. The choke line coming off the stack will lead into a 5,000 psi choke manifold with 2 adjustable chokes. The 7" bleed line will divert any gas 50-75' away from rig substructure. Bleed line will be properly anchored with stakes or buried and will be set up so that gas can be vented. There will be a clearing of 25' for the gas to be vented. Duration of flare is expected to be ~ 7 days, depending on actual test results.

Ignition Methods and

1. Primary - Vent
2. Backup - Marine flare pistol

Notification

Notification of a Flare will be given to the local Fire Department and/or 911 center, if possible. Refer to Section 3.0 for contact information.

Completions

Flare Line Installation

The Flare Stacks will be positioned in a safe area at least 25' away from pit liners, trees and any other hazardous sites. The Flowback configuration consist of in order: 7 1/16" 10m frac valve; Flow Cross with 4 1/16" wing valve ; 3" 5 valve choke manifold; 3" line with junk catcher; 1440 psi horizontal test separator and 2" 1502 pipe to 4' x 40" vertical Flare Stack. Flowline will be properly anchored and tethered. Duration of flare is expected to be ~ 7 days, depending on actual test results.

Ignition Methods

1. Primary - Pilot Light
2. Backup - Marine flare pistol

Notification

Notification of a Flare will be given to the local Fire Department and/or 911 center, if possible. Refer to Section II for contact information.

Section VII: Collision Avoidance

Collision avoidance is managed by utilizing gyro tools, downhole steering tools (MWD/EM), and anti-collision software by engineers. Two drilling scenarios that occur are normal pad drilling and return to pad drilling. Normal pad drilling is defined when a top hole rig drills each well on the pad down to kick off point (KOP) and then a bottom hole rig moves onto the pad after the top-hole rig moves off and drills the curve and lateral sections. Normal pad drilling can also be defined when a bottom hole rig moves to a pad and drills each well on the pad from surface to TD (Grassroots Well). Return to pad drilling is a scenario where a top-hole rig or a bottom hole rig returns to a pad to drill additional well(s) that currently have producing (live) wells on the pad. In each scenario gyro tools, MWD/EM tools, and anti-collision processes are utilized to mitigate the risk of downhole collisions.

Normal Pad Drilling

In this scenario a top-hole or bottom hole rig will move on a pad and drill each well to KOP. At KOP of each well a gyro will be run to confirm the position of the hole. When the bottom hole rig moves onto the pad, once the top-hole rig has moved off, anti-collision is run on each well and the most efficient well path with the lowest risk of collision is designed and selected by engineers to be executed in the drilling plan utilizing directional drilling and anti-collision software. Directional bottom hole assemblies (BHA) are run in the hole and used to drill the well from vertical to horizontal. Gyros are taken as needed to steer the well until the well is comfortably away from the other wells and the risk of collision is eliminated. Surveys utilizing MWD/EM tools are taken from that point on to the total depth of the well is achieved. While directionally drilling the well, anti-collision software is utilized and separation factors are analyzed. During this scenario, if two wells come with 10 feet or a separation factor of 1.5, each survey is monitored closely and anti-collision is run after each survey until the wells are clear of a collision risk.

Return to Pad Drilling

In this scenario a top-hole rig or bottom hole rig will move on a pad that currently has producing (live) wells on the pad. Prior to drilling additional wells on the pad the existing wells on the pad are analyzed. Engineers evaluate how the existing wells walk in the vertical part of the well and prepare preliminary directional plans to mitigate downhole collisions. After the rig moves on the pad and starts drilling, gyro surveys are taken several times from surface to KOP. After each gyro is taken, the surveys are analyzed by engineers and anti-collision is run to ensure current well path is not in the direction of a producing well(s). Frequency of gyros is determined by engineers and the position of the hole as it relates to existing wells on the pad. Directional BHAs are run in the hole and used to drill the well from vertical to horizontal. Gyros are taken as needed to steer the well until the well is comfortably away from the other wells and the risk of collision is eliminated. Surveys utilizing MWD/EM tools are taken from that point on to the total depth of the well is achieved. While directionally drilling the well, anti-collision software is utilized and separation factors are analyzed. During this scenario, the well is surveyed from surface to TD as it is drilled and if two wells come with 14 feet or a separation factor of 2.0, each survey is monitored closely and anti-collision is run after each survey until the wells are clear of a collision risk.

Section IX: Deep Well Additional Requirements

Formations

See the attached WV Geological Prognosis on the following pages for each well listed on the permit cover page which lists anticipated freshwater, saltwater, oil and gas, hydrogen sulfide, thief zones, high pressure and volume zones and their expected depths

WEST VIRGINIA GEOLOGICAL PROGRAM

Map Sheet No. of
 812543 (WVLSH-1)

Drilling Objectives:

Location: Marion
County: Putnam
State: West Virginia
Section: 1973 NE
Surface Elevation: 20267.6
Top of Formation: 20770.17
Top of Zone: 20000.1
Recommended Depth: 100' Depth

Marion
 Putnam
 West Virginia

Existing: 104110 N
Existing: 1043347 E
Existing: 1044370 S
Recommended LP to TD:

TVD: 6900
TVD: 6800
#238

Proposed Logging Suite:

Formation logs based on logs from on-pit hole well 13344. Analyzers to be on location at surface and down hole on one both the core and test sections.

Recommended Gas Tests:

100% 2050, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 7070, 7080, 7090, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7170, 7180, 7190, 7200, 7210, 7220, 7230, 7240, 7250, 7260, 7270, 7280, 7290, 7300, 7310, 7320, 7330, 7340, 7350, 7360, 7370, 7380, 7390, 7400, 7410, 7420, 7430, 7440, 7450, 7460, 7470, 7480, 7490, 7500, 7510, 7520, 7530, 7540, 7550, 7560, 7570, 7580, 7590, 7600, 7610, 7620, 7630, 7640, 7650, 7660, 7670, 7680, 7690, 7700, 7710, 7720, 7730, 7740, 7750, 7760, 7770, 7780, 7790, 7800, 7810, 7820, 7830, 7840, 7850, 7860, 7870, 7880, 7890, 7900, 7910, 7920, 7930, 7940, 7950, 7960, 7970, 7980, 7990, 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070, 8080, 8090, 8100, 8110, 8120, 8130, 8140, 8150, 8160, 8170, 8180, 8190, 8200, 8210, 8220, 8230, 8240, 8250, 8260, 8270, 8280, 8290, 8300, 8310, 8320, 8330, 8340, 8350, 8360, 8370, 8380, 8390, 8400, 8410, 8420, 8430, 8440, 8450, 8460, 8470, 8480, 8490, 8500, 8510, 8520, 8530, 8540, 8550, 8560, 8570, 8580, 8590, 8600, 8610, 8620, 8630, 8640, 8650, 8660, 8670, 8680, 8690, 8700, 8710, 8720, 8730, 8740, 8750, 8760, 8770, 8780, 8790, 8800, 8810, 8820, 8830, 8840, 8850, 8860, 8870, 8880, 8890, 8900, 8910, 8920, 8930, 8940, 8950, 8960, 8970, 8980, 8990, 9000, 9010, 9020, 9030, 9040, 9050, 9060, 9070, 9080, 9090, 9100, 9110, 9120, 9130, 9140, 9150, 9160, 9170, 9180, 9190, 9200, 9210, 9220, 9230, 9240, 9250, 9260, 9270, 9280, 9290, 9300, 9310, 9320, 9330, 9340, 9350, 9360, 9370, 9380, 9390, 9400, 9410, 9420, 9430, 9440, 9450, 9460, 9470, 9480, 9490, 9500, 9510, 9520, 9530, 9540, 9550, 9560, 9570, 9580, 9590, 9600, 9610, 9620, 9630, 9640, 9650, 9660, 9670, 9680, 9690, 9700, 9710, 9720, 9730, 9740, 9750, 9760, 9770, 9780, 9790, 9800, 9810, 9820, 9830, 9840, 9850, 9860, 9870, 9880, 9890, 9900, 9910, 9920, 9930, 9940, 9950, 9960, 9970, 9980, 9990, 10000.

ESTIMATED FORMATION LOGS

Formation	Top (TVD)	Base (TVD)	Thickness	Description
Fresh Water Zone	1	1001		FW @ 253, 416, 508, 507, 1001
Coal	1001	1001		100' Coal
Top Devonian	2575			
Clay	2575	2703	128'	Silty Sand
Clay	2703	2712	9'	Silty Sand
Clay	2712	2721	9'	Silty Sand
Clay	2721	2730	9'	Silty Sand
Clay	2730	2739	9'	Silty Sand
Clay	2739	2748	9'	Silty Sand
Clay	2748	2757	9'	Silty Sand
Clay	2757	2766	9'	Silty Sand
Clay	2766	2775	9'	Silty Sand
Clay	2775	2784	9'	Silty Sand
Clay	2784	2793	9'	Silty Sand
Clay	2793	2802	9'	Silty Sand
Clay	2802	2811	9'	Silty Sand
Clay	2811	2820	9'	Silty Sand
Clay	2820	2829	9'	Silty Sand
Clay	2829	2838	9'	Silty Sand
Clay	2838	2847	9'	Silty Sand
Clay	2847	2856	9'	Silty Sand
Clay	2856	2865	9'	Silty Sand
Clay	2865	2874	9'	Silty Sand
Clay	2874	2883	9'	Silty Sand
Clay	2883	2892	9'	Silty Sand
Clay	2892	2901	9'	Silty Sand
Clay	2901	2910	9'	Silty Sand
Clay	2910	2919	9'	Silty Sand
Clay	2919	2928	9'	Silty Sand
Clay	2928	2937	9'	Silty Sand
Clay	2937	2946	9'	Silty Sand
Clay	2946	2955	9'	Silty Sand
Clay	2955	2964	9'	Silty Sand
Clay	2964	2973	9'	Silty Sand
Clay	2973	2982	9'	Silty Sand
Clay	2982	2991	9'	Silty Sand
Clay	2991	3000	9'	Silty Sand
Clay	3000	3009	9'	Silty Sand
Clay	3009	3018	9'	Silty Sand
Clay	3018	3027	9'	Silty Sand
Clay	3027	3036	9'	Silty Sand
Clay	3036	3045	9'	Silty Sand
Clay	3045	3054	9'	Silty Sand
Clay	3054	3063	9'	Silty Sand
Clay	3063	3072	9'	Silty Sand
Clay	3072	3081	9'	Silty Sand
Clay	3081	3090	9'	Silty Sand
Clay	3090	3099	9'	Silty Sand
Clay	3099	3108	9'	Silty Sand
Clay	3108	3117	9'	Silty Sand
Clay	3117	3126	9'	Silty Sand
Clay	3126	3135	9'	Silty Sand
Clay	3135	3144	9'	Silty Sand
Clay	3144	3153	9'	Silty Sand
Clay	3153	3162	9'	Silty Sand
Clay	3162	3171	9'	Silty Sand
Clay	3171	3180	9'	Silty Sand
Clay	3180	3189	9'	Silty Sand
Clay	3189	3198	9'	Silty Sand
Clay	3198	3207	9'	Silty Sand
Clay	3207	3216	9'	Silty Sand
Clay	3216	3225	9'	Silty Sand
Clay	3225	3234	9'	Silty Sand
Clay	3234	3243	9'	Silty Sand
Clay	3243	3252	9'	Silty Sand
Clay	3252	3261	9'	Silty Sand
Clay	3261	3270	9'	Silty Sand
Clay	3270	3279	9'	Silty Sand
Clay	3279	3288	9'	Silty Sand
Clay	3288	3297	9'	Silty Sand
Clay	3297	3306	9'	Silty Sand
Clay	3306	3315	9'	Silty Sand
Clay	3315	3324	9'	Silty Sand
Clay	3324	3333	9'	Silty Sand
Clay	3333	3342	9'	Silty Sand
Clay	3342	3351	9'	Silty Sand
Clay	3351	3360	9'	Silty Sand
Clay	3360	3369	9'	Silty Sand
Clay	3369	3378	9'	Silty Sand
Clay	3378	3387	9'	Silty Sand
Clay	3387	3396	9'	Silty Sand
Clay	3396	3405	9'	Silty Sand
Clay	3405	3414	9'	Silty Sand
Clay	3414	3423	9'	Silty Sand
Clay	3423	3432	9'	Silty Sand
Clay	3432	3441	9'	Silty Sand
Clay	3441	3450	9'	Silty Sand
Clay	3450	3459	9'	Silty Sand
Clay	3459	3468	9'	Silty Sand
Clay	3468	3477	9'	Silty Sand
Clay	3477	3486	9'	Silty Sand
Clay	3486	3495	9'	Silty Sand
Clay	3495	3504	9'	Silty Sand
Clay	3504	3513	9'	Silty Sand
Clay	3513	3522	9'	Silty Sand
Clay	3522	3531	9'	Silty Sand
Clay	3531	3540	9'	Silty Sand
Clay	3540	3549	9'	Silty Sand
Clay	3549	3558	9'	Silty Sand
Clay	3558	3567	9'	Silty Sand
Clay	3567	3576	9'	Silty Sand
Clay	3576	3585	9'	Silty Sand
Clay	3585	3594	9'	Silty Sand
Clay	3594	3603	9'	Silty Sand
Clay	3603	3612	9'	Silty Sand
Clay	3612	3621	9'	Silty Sand
Clay	3621	3630	9'	Silty Sand
Clay	3630	3639	9'	Silty Sand
Clay	3639	3648	9'	Silty Sand
Clay	3648	3657	9'	Silty Sand
Clay	3657	3666	9'	Silty Sand
Clay	3666	3675	9'	Silty Sand
Clay	3675	3684	9'	Silty Sand
Clay	3684	3693	9'	Silty Sand
Clay	3693	3702	9'	Silty Sand
Clay	3702	3711	9'	Silty Sand
Clay	3711	3720	9'	Silty Sand
Clay	3720	3729	9'	Silty Sand
Clay	3729	3738	9'	Silty Sand
Clay	3738	3747	9'	Silty Sand
Clay	3747	3756	9'	Silty Sand
Clay	3756	3765	9'	Silty Sand
Clay	3765	3774	9'	Silty Sand
Clay	3774	3783	9'	Silty Sand
Clay	3783	3792	9'	Silty Sand
Clay	3792	3801	9'	Silty Sand
Clay	3801	3810	9'	Silty Sand
Clay	3810	3819	9'	Silty Sand
Clay	3819	3828	9'	Silty Sand
Clay	3828	3837	9'	Silty Sand
Clay	3837	3846	9'	Silty Sand
Clay	3846	3855	9'	Silty Sand
Clay	3855	3864	9'	Silty Sand
Clay	3864	3873	9'	Silty Sand
Clay	3873			

Casing and Cementing

SEE ATTACHED DOCUMENTS FOR EACH WELL

Casing and Cementing notes:

- 1) All cement volumes are typical, actual conditions may dictate changes in geometry.
- 2) All casing and cement meet API standards, but are not API monogrammed.
- 3) Mine strings will be run as required by geologic conditions.
- 4) Full BOP pressure tests on installation, function test daily, blind ram test on trips.

Well Number: 513342 (WEU6H1)

Casing and Cementing			Deepest Fresh Water: 1,031'		
Type	Conductor	Mine Protection	Surface	Intermediate	Production
Hole Size, In.	24	-	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	-	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.635	-	0.380	0.395	0.361
Depth, MD	40'	-	1,131'	3,100'	13,281'
Depth, TVD	40'	-	1,131'	3,100'	6,903'
Centralizers Used	Yes	-	Yes	Yes	Yes
Weight/Grade	81#/MC-90	-	54#/MC-50	40#/MC-50	20#/P-110
New or Used	New	-	New	New	New
Pressure Testing	-	-	20% Greater than exp Pressure	20% Greater than exp. Pressure	20% greater than exp. fracture pressure
After Fracture Pressure Testing	-	-	-	-	20% greater than exp. shut pressure
ID, in	19.25	-	12.615	8.835	4.778
Burst (psi)	-	-	2,480	3,590	12,640
Collapse (psi)	-	-	1,110	2,470	11,100
Tension (mibs)	-	-	455	456	587
Cement Class	-	-	-	-	H
Cement Type	Construction	-	1	1	-
Cement Yield	1.18	-	1.21	1.21	1.27/1.86
Meets API Standards	-	-	Yes	Yes	Yes
WOC Time	-	-	Min. 8 hrs	Min. 8 hrs	Min. 8 hrs
Top of Cement (Planned)	Surface	-	Surface	Surface	3,300'
Fill (ft.)	40'	-	1,131'	3,100'	9,481'
Percent Excess	-	-	20	20	10
Est. Volume (cu ft)	38	-	977	1,207	2,392
Est. Volume (BBLs)	7	-	174	215	426

Flaring Activities

See also Section VII: Flaring for additional information and details.



Where energy meets innovation.

WELL SITE SAFETY PLAN RECEIPT ACKNOWLEDGMENT

This form letter is to be signed by the LEPC or CES representative to indicate they have received the Site Safety Plan for the following well site location and understand its use

Site Location (Copied from Section III):

WV- Doddridge County - West Union
Site State, County and Municipality

EQT WEU6 Pad
Site Location Designation

785 WV Rt 18 South, West Union, WV 26456
Site Address assigned by County 9-1-1

US Rt. 50 and WV Rt 18
Nearest cross road(s)

NAD 83: 39.287226 / -80.764765
Access Road Coordinates

NAD 83: 39.280259 / -80.753570
Pad Site Coordinates

I have received my copy of the *Well Site Safety Plan* for the above described location. I understand that this is a reference tool for emergency response and it is my responsibility to read and understand the Plan.

LEPC or CES Representative (printed)

EQT Representative (printed)

Representative Affiliation and Title

EQT Environmental and Safety title

Representative Signature

EQT Environmental and Safety Signature

Date

Date