



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

June 21, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-9502351, 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: 512895
Farm Name: PETER, DONNA J.
API Well Number: 47-9502351
Permit Type: Horizontal 6A Well
Date Issued: 06/21/2016

PERMIT CONDITIONS 4709502351

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 one hundred (100) 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. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

47-095-02351

WW-6B
(04/15)

API NO. 47-095 -
OPERATOR WELL NO. 512895
Well Pad Name: WEU4

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 Tyler Centerville West Union 7.5
Operator ID County District Quadrangle

2) Operator's Well Number: 512895 Well Pad Name: WEU4

3) Farm Name/Surface Owner: Donna J Peter Public Road Access: WV-18

4) Elevation, current ground: 1079 Elevation, proposed post-construction: 1079

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

470950235
Jmit
3-24-16

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6680', 54', 2747 PSI

8) Proposed Total Vertical Depth: 6680

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11,792

11) Proposed Horizontal Leg Length: 4356

12) Approximate Fresh Water Strata Depths: 132, 175, 186, 204

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

14) Approximate Saltwater Depths: 1128, 1219, 1222

15) Approximate Coal Seam Depths: 230, 281, 696

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? Yes No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

47-095-02851

47-095-02851

WW-6B
(04/15)

API NO. 47- 095 -
OPERATOR WELL NO. 512895
Well Pad Name: WEU4

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	750	750	668 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2865	2865	1126 ft ³ / CTS
Production	5 1/2	New	P-110	20	11792	11792	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run if run set 40' above top perf or 80' inclination	
Liners							

DH
P-29-16
2/27/16

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class H	1.07
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.07/1.86
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

19) 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. Drill the vertical to an approximate depth of 5088'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

4709502351

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 internal casing pressure is expected to be approximately 10000 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

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

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 centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives
Surface (Type I Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. .25% Flake Loss Circulation Material (LCM)
Intermediate (Class H Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. 0.25% Flake Loss Circulation Material (LCM) .6% Super FL-300 (fluid loss/lengthens thickening time)
Production:
Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix) .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation.
60 % Calcium Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

RECEIVED
Office of Oil & Gas
MAR 23 2016

*Note: Attach additional sheets as needed.

Well 512895(WEU4H6)
 EQT Production
 West Union Quad
 Tyler County, WV

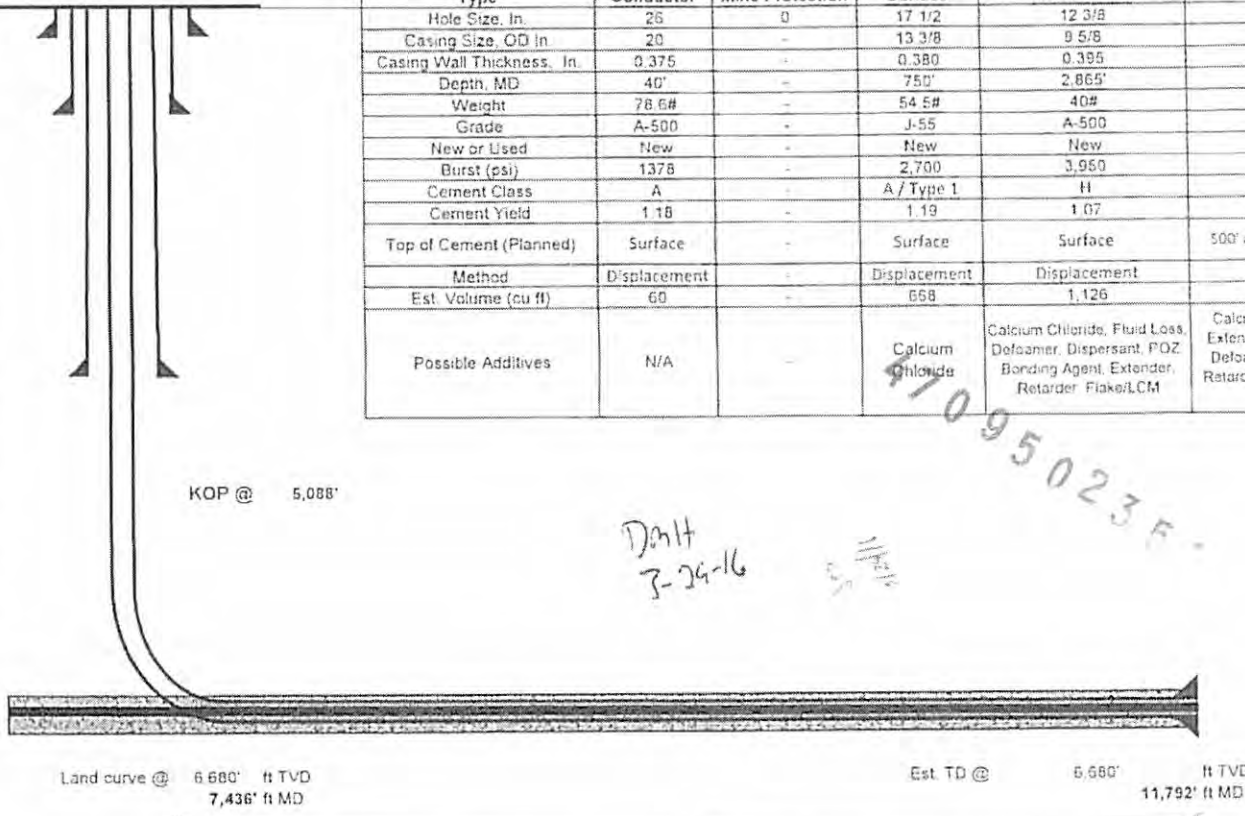
Azimuth 155
 Vertical Section 5125

Note: Diagram is not to scale

Formations	Top TVD	Base TVD
Coal Bed	0	0
Base Fresh Water		204
Intermediate Clay		860
Base Red Rock		1101
Maxton	1838	2037
Big Lime	2111	2395
Weir	2403	2450
Gantz	2490	2507
Fifty foot	2604	2659
Thirty foot	2690	2744
Gordon	2770	2815
Intermediate Clay		2800
Forth Sand	2841	2903
Bayard	3011	3148
Warren	3374	3440
Speechley	3460	3574
Balltown A	3976	4088
Riley	4574	4854
Benson	4995	5058
Alexander	5242	5324
Sonyea	6328	6449
Middlesex	6449	6496
Genesee	6496	6570
Genesee	6570	6605
Tully	6605	6626
Hamilton	6626	6649
Marcellus	6649	6702
Production Zone	11792	MD
Onondaga	6702	

Casing and Cementing				Deepest Fresh Water 204'		
Type	Conductor	Mine Protection	Surface	Intermediate	Production	
Hole Size, In.	26	0	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.	0.375	-	0.380	0.395	0.361	
Depth, MD	40'	-	750'	2,865'	11,792'	
Weight	78.6#	-	54.5#	40#	20#	
Grade	A-500	-	J-55	A-500	P-110	
New or Used	New	-	New	New	New	
Burst (psi)	1378	-	2,700	3,950	12,640	
Cement Class	A	-	A / Type 1	H	H	
Cement Yield	1.18	-	1.19	1.07	1.07/1.86	
Top of Cement (Planned)	Surface	-	Surface	Surface	500' above top Producing Zone	
Method	Displacement	-	Displacement	Displacement	Displacement	
Est. Volume (cu ft)	60	-	658	1,126	1,948	
Possible Additives	N/A	-	Calcium Chloride	Calcium Chloride, Fluid Loss, Defoamer, Dispersant, POZ, Bonding Agent, Extender, Retarder Flake/LCM	Calcium Carbonate, Fluid Loss, Extender, Dispersant, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent	

47-095-02351



Drill 3-24-16

47-095-02351

Proposed Well Work
 Drill and complete a new horizontal well in the Marcellus formation
 Drill the vertical to an approximate depth of 5088'
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing

4,350' ft Lateral



March 15, 2016

4709502351

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

Re: Casing change on WEU4 (512895)

Dear Mr. Smith,

EQT is requesting the 13 3/8" surface casing to be set at 750' KB, 50' below the coal at 696-700' KB. We will set the 9-5/8" intermediate string at 2865' KB, 50' below the base of the Gordon.

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

Sincerely,

Vicki Roark
Permitting Supervisor-WV

Enc.

DH
3-24-16
SES
3/25/16

4709502351



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25301
(304) 828-0450
(304) 926-0452 fax

Laird Ray Tomblin, Governor
Randy C. Huffman, 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 Flake-Lost 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

Received
Office of Oil & Gas
MAR 23 2016

Promoting a healthy environment

06/24/2016

4709502-



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450
(304) 826-0452 fax

Earl Ray Teublin, 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 § 8-9.2.b. 4/5/6/8 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 coal 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.

Received
Office of Oil & Gas
MAR 23 2016

Promoting a healthy environment.

06/24/2016

4709502351

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 § 4-11.5 and 35 CSR § 8-9.2.h.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 & Gas
MAR 23 2016

06/24/2016

47-095-02351

WW-9
(2/15)

API Number 47 - 95 - _____
Operator's Well No. 512935

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

47 095 02351

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Tributary of Camp Mistake Run Quadrangle West Union

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Flowback water and residual solids

Will a synthetic liner be used in the pit? Yes No 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 Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

DmH
3-29-16

Will closed loop system be used? If so, describe: 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 (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

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

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on 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.

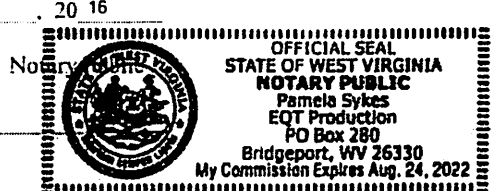
Company Official Signature *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 15 day of March, 20 16

My commission expires 8-24-22



06/24/2016

47-095-02351

Form WW-9

Operator's Well No. 512895

Proposed Revegetation Treatment: Acres Disturbed no additional Prevegetation pH 6.3

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

4709502351

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments:

Title: Oil + Gas Injector

Date: 3-29-16

Field Reviewed? Yes No

47-095-02351

WW-9

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

- Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

Additives to be used in drilling medium?

- Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

DMH
3-24-16
JES
3/27/16

EQT Production Water plan
Offsite disposals for Marcellus wells

470950223

CWS TRUCKING INC.

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

BROAD STREET ENERGY LLC

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRIAD ENERGY

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

KING EXCAVATING CO.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

06/24/2016

47-095-02351



Where energy meets innovation.™

4709502351

Site Specific Safety Plan

EQT WEU 4 Pad


Alma
Tyler County, WV

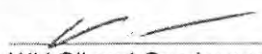
For Wells:

512895

Date Prepared:

February 3, 2016


EQT Production


WV Oil and Gas Inspector

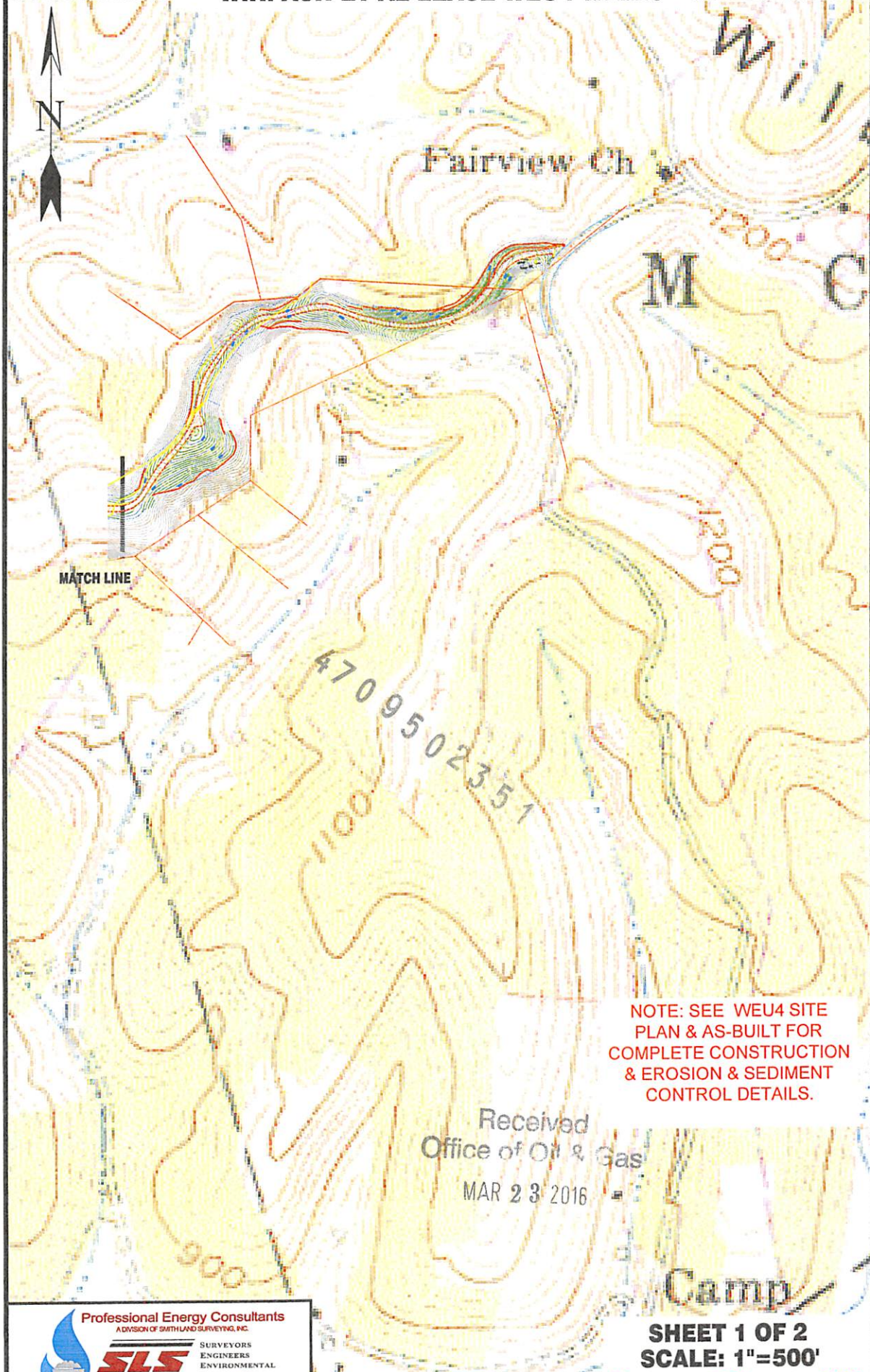
Permitting Supervisor
Title

Oil + Gas Inspector
Title

3/15/14
Date

3-29-16
Date

06/24/2016



NOTE: SEE WEU4 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

Received
Office of Oil & Gas
MAR 23 2016

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.



SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
WWW.SLSURVYS.COM
(304) 482-5634

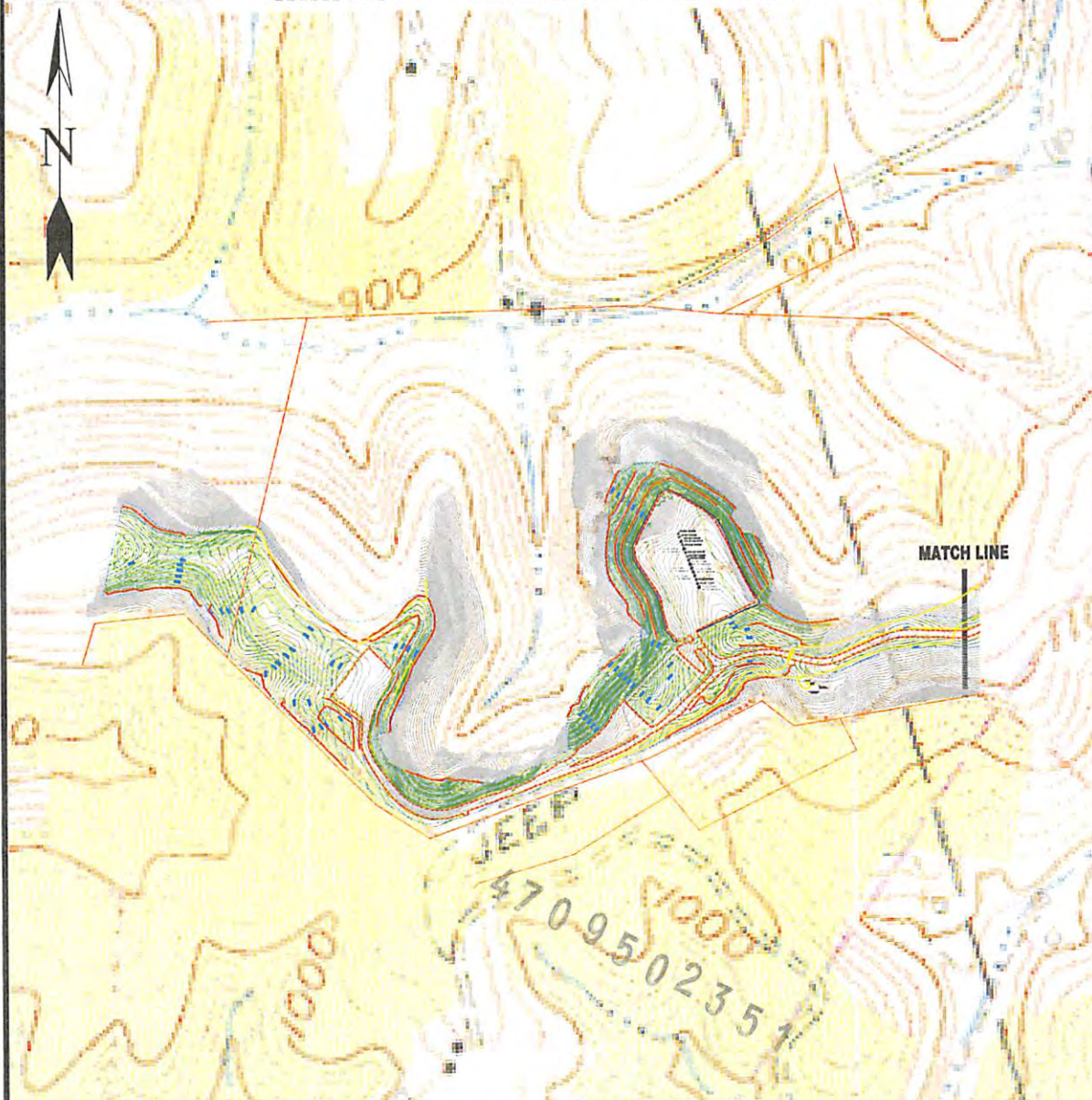
DRAWN BY: K.D.W.	FILE NO. 7701	DATE 03-03-16	CADD FILE: 7701RECPLANR3.dwg
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TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE

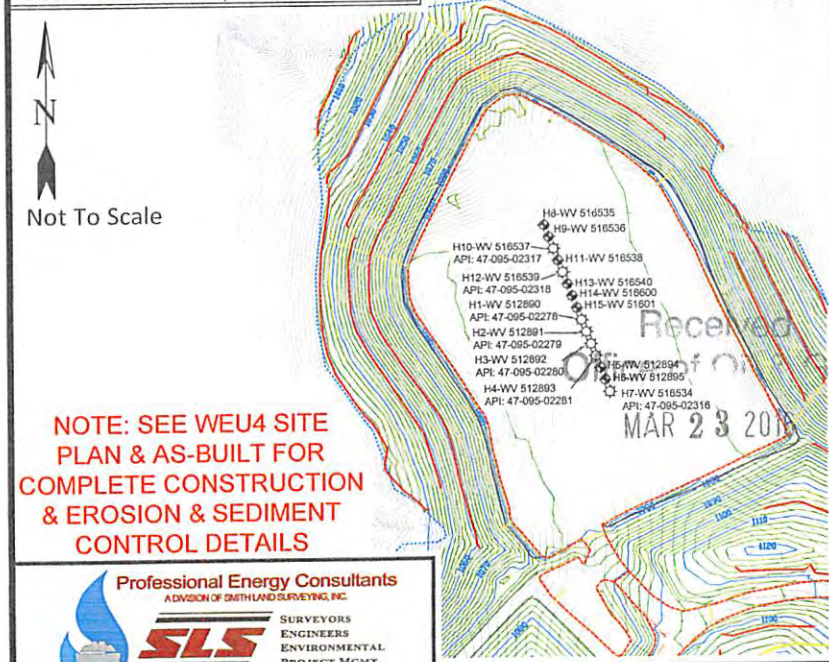
SHEET 1 OF 2
SCALE: 1"=500'



06/24/2016



Detail Sketch for Proposed WEU4 Wells



NOTE: SEE WEU4 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

NOTE: SEE WEU4 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS

Professional Energy Consultants
 A DIVISION OF SMITHLAND SURVEYING, INC.
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.
 (304) 402-9634
 WWW.SLSURVEYS.COM

DRAWN BY K.D.W.	FILE NO. 7701	DATE 03-03-16	CADD FILE: 7701RECLANR3.dwg
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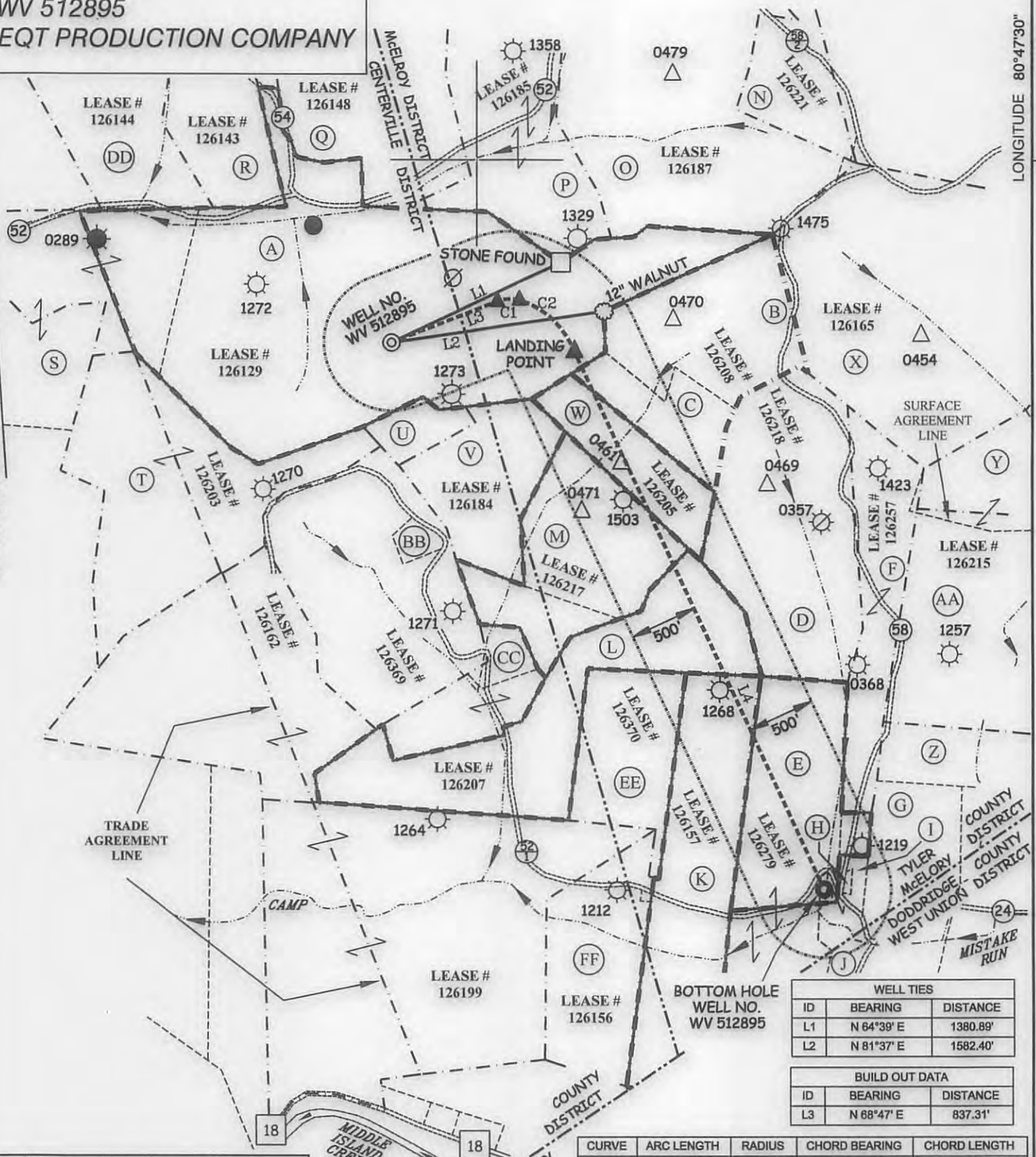
TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE

SHEET 2 OF 2
 SCALE: 1"=500'

 06/24/2016

WEU4
WV 512895
EQT PRODUCTION COMPANY

NAD'27 GRID NORTH



WELL TIES		
ID	BEARING	DISTANCE
L1	N 64°38' E	1380.89'
L2	N 81°37' E	1582.40'

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	N 68°47' E	837.31'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	164.42'	282.68'	N 86°29' E	162.11'
C2	572.32'	645.22'	S 47°06' E	553.74'

LATERAL		
ID	BEARING	DISTANCE
L4	S 25°00' E	4356.37'

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SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
 (304) 462-5634 WWW.SLSURVEYS.COM

(S.P.C. WV NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 318,294.32 E. 1,626,601.83
 NAD'27 GEO. LAT-(N) 39.366370 LONG-(W) 80.820742
 NAD'83 UTM (M) N. 4,357,458.74 E. 515,456.77
LANDING POINT
 NAD'27 S.P.C.(FT) N. 318,230.96 E. 1,627,949.80
 NAD'27 GEO. LAT-(N) 39.366249 LONG-(W) 80.815971
 NAD'83 UTM (M) N. 4,357,446.12 E. 515,867.75
BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 314,282.15 E. 1,629,790.87
 NAD'27 GEO. LAT-(N) 39.355484 LONG-(W) 80.809256
 NAD'83 UTM (M) N. 4,356,252.66 E. 516,448.71



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- FENCE LINE
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- ABANDONED WELL
- PLUGGED WELL
- STORAGE WELL
- CENTERVILLE DISTRICT TAX MAP-PARCEL C-00-00
- McELROY DISTRICT TAX MAP-PARCEL M-00-00
- WEST UNION DISTRICT TAX MAP-PARCEL WJ-00-00

SCALE 1" = 1000'
 DATE OCTOBER 1, 2015
 REVISED MARCH 03, 2016
 OPERATORS WELL NO. WV 512895
 API WELL NO. 47-095-02351 H44
 NO. STATE COUNTY PERMIT

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

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

06/24/2016

COUNTY NAME PERMIT

WEU4
WV 512895
EQT PRODUCTION COMPANY

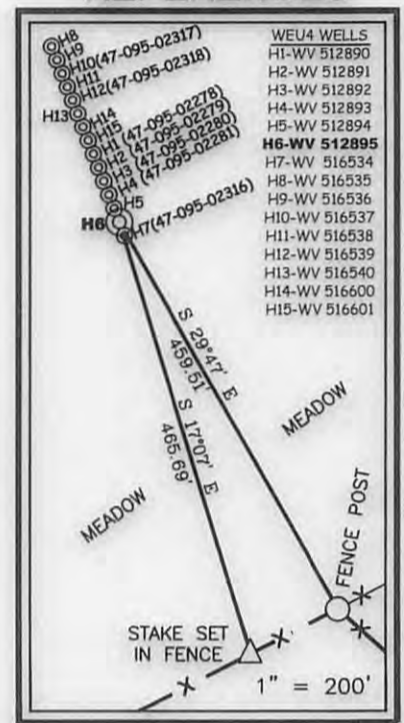
LONGITUDE 80°47'30"

(S.P.C. WV NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 318,294.32 E. 1,626,601.83
 NAD'27 GEO. LAT-(N) 39.366370 LONG-(W) 80.815972
 NAD'83 UTM (M) N. 4,357,458.74 E. 515,456.77
LANDING POINT
 NAD'27 S.P.C.(FT) N. 318,230.36 E. 1,627,949.80
 NAD'27 GEO. LAT-(N) 39.366249 LONG-(W) 80.815971
 NAD'83 UTM (M) N. 4,357,446.12 E. 515,867.75
BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 314,282.15 E. 1,629,790.87
 NAD'27 GEO. LAT-(N) 39.355484 LONG-(W) 80.809256
 NAD'83 UTM (M) N. 4,356,252.66 E. 516,448.71

A	DONNA PETER	113.4 ACRES±	TM C-16-22
B	EDWARD II & CAROLYN WHITE	40 ACRES±	TM M-21-38
C	EDWARD II & CAROLYN WHITE	12.5 ACRES±	TM M-21-39
D	CARL PERKINS	50.25 ACRES±	TM M-21-37
E	JAMES & KATHRYN McNULTY	50.18 ACRES±	TM M-23-3.1
F	THOMAS & RICHARD MARTIN	28.99 ACRES±	TM M-21-36
G	MYRON & BETTY WHITE	14.88 ACRES±	TM WU-01-01
H	KENDRA (COTTRILL) WYKE	0.5 ACRES±	TM WU-01-08
I	JASON & JENNIFER BAGLEY	1.42 ACRES±	TM WU-01-10.1
J	JUDITH BAGLEY	10.09 ACRES±	TM WU-01-10
K	RICHARD & LISA HENDRICKSON	44.68 ACRES±	TM M-23-02
L	ANZANETTA DRAIN HRS	46.88 ACRES±	TM C-18-03
M	JOHN McDONALD JR.	23 ACRES±	TM M-21-41
N	GARY DAVENPORT	16 ACRES±	TM M-21-25
O	BRUCE & SANDRA STONEKING	69.44 ACRES±	TM M-21-28
P	BRUCE & SANDRA STONEKING	42.86 ACRES±	TM M-21-29
Q	ELIZABETH ABRUZZINO	109.94 ACRES±	TM C-16-10
R	DAVID WOLFE	24.84 ACRES±	TM C-16-16
S	RICHARD & YVONNE METCALF	61.57 ACRES±	TM C-16-17
T	CHRIS BAUM ET AL	56.84 ACRES±	TM C-16-23
U	PAUL WEEKLEY (LIFE)	5 ACRES±	TM C-16-28
V	PAUL WEEKLEY (LIFE)	18 ACRES±	TM C-16-27
W	EDWARD II & CAROLYN WHITE	16 ACRES±	TM M-21-40
X	ASIA CUMBERLEDGE	75.75 ACRES±	TM M-21-32
Y	BRUCE BOLAND	35.43 ACRES±	TM M-21-34
Z	MYRON & BETTY WHITE	15.15 ACRES±	TM M-23-07
AA	BENTON E. KEYS	60.6 ACRES±	TM M-21-35
BB	STONEWALL GAS COMPANY	2 ACRES±	TM C-16-24.2
CC	PAUL WEEKLEY (LIFE)	3.37 ACRES±	TM C-16-29
DD	CONRAD COSTILOW	46.17 ACRES±	TM C-16-14
EE	LESLIE MOORE ET AL	20.25 ACRES±	TM M-23-01
FF	COREY AND ANGELA ELINE	27.5 ACRES±	TM M-23-06

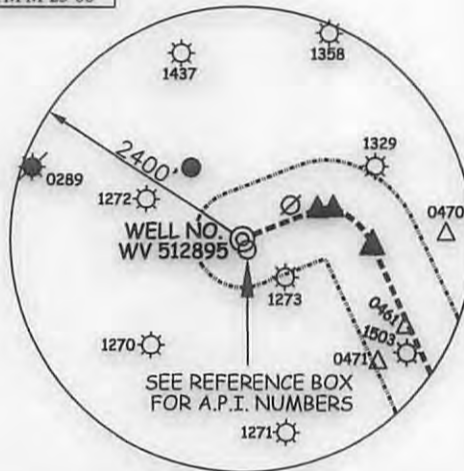
ROYALTY OWNERS		
ROXIE DAVIS ET AL	53 AC.±	LEASE NO. 126208
LUCIA A. ANCONA ET AL	16 AC.±	LEASE NO. 126205
BLACKROCK ENTERPRISES LLC ET AL	30 AC.±	LEASE NO. 126217
BEATRICE BRADY ET AL	47 AC.±	LEASE NO. 126207
HESTER B. BRITTON ET AL	44 AC.±	LEASE NO. 126157
JAMES T. McNULTY ET AL	30 AC.±	LEASE NO. 126279

REFERENCES



NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.



Professional Energy Consultants
 A DIVISION OF SMITH LAND SURVEYING, INC.

SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
 (304) 462-5634 WWW.SLSURVEYS.COM

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE SEPTEMBER 03, 20 15
 REVISED MARCH 03, 20 16
 OPERATORS WELL NO. WV 512895
 API WELL NO. 47-095-02351
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7701P512895R2
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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



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

LOCATION:
 PAD ELEVATION 1,079' WATERSHED TRIBUTARY OF CAMP MISTAKE RUN
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER DONNA J. PETER ACREAGE 113.40±
 ROYALTY OWNER WACO OIL AND GAS INC. ET AL ACREAGE 152± LEASE NO. 126129
 PROPOSED WORK:
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 6,649'

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

COUNTY NAME PERMIT

06/24/2016

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See Attached

4709502351

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

Received
Office of Oil & Gas
MAR 23 2016

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company

By: Victoria Roark

Its: Permitting Supervisor

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>126129</u>	<u>Waco Oil & Gas Co., Inc. et al (current royalty owner)</u>		min pd 1/8th	
	William H. Ash, et ux, et al (original lessor)	Equitable Gas Company		LB191/321
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB433/777
	Equitrans, LP	EQT Production Company		DB 396/640
	Equitrans, LP	EQT Production Company		OG 440/107
<u>126208</u>	<u>Roxie Davis, et al (current royalty owner)</u>		min pd 1/8th	
	Lucy Davis, et al. (original lessor)	Equitable Gas Company		DB 197/551
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777
	Equitrans, L.P.	EQT Production Company		DB 396/640
<u>126205</u>	<u>Lucia A. Ancona, et al (current royalty owner)</u>		min pd 1/8th	
	Lucy Davis (original lessor)	Equitable Gas Company		DB 197/326
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777
	Equitrans, L.P.	EQT Production Company		DB 396/640
<u>126217</u>	<u>Blackrock Enterprises LLC, et al (current royalty owner)</u>		min pd 1/8th	
	Richard E. Moore, et al. (original lessor)	Equitable Gas Company		DB 198/405
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB433/777
	Equitrans, LP	EQT Production Company		DB 396/640
<u>126207</u>	<u>Beatrice Brady, et al (current royalty owner)</u>		min pd 1/8th	
	Paul Weekly (original lessor)	Equitable Gas Company		DB 197/544
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB433/777
	Equitrans, LP	Equitable Production Company		DB 396/640
<u>126157</u>	<u>Hester B. Britton, et al (current royalty owner)</u>		min pd 1/8th	
	Asia Dell Cumberlandge, et al (original lessor)	Equitable Gas Company		DB 192/250
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB433/777
	Equitrans, LP	Equitable Production Company		DB 396/640
<u>126279</u>	<u>James T. McNulty, et al (current royalty owner)</u>		min pd 1/8th	
	William G. Bagley, et al (original lessor)	Equitable Gas Company		DB 207/20
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB433/777
	Equitrans, LP	Equitable Production Company		DB 396/640

4709502351

Received
Office of Oil & Gas
MAR 23 2016



March 7, 2016

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

Re: WEU4, well 512895
Centerville District, Tyler County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

Received
Office of Oil & Gas
MAR 23 2016

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

Date of Notice Certification: 3-16-15

API No. 47- 095 _____
Operator's Well No. 512895
Well Pad Name: WEU4

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>515456.77</u>
County:	<u>Tyler</u>		Northing:	<u>4357458.74</u>
District:	<u>Centerville</u>	Public Road Access:	<u>US19</u>	
Quadrangle:	<u>West Union</u>	Generally used farm name:	<u>Donna J. Peter</u>	
Watershed:	<u>Tributary of Camp Mistake Run</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
--	---

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

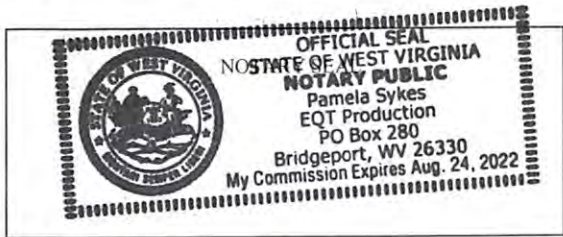
Received
Office of Oil & Gas
MAR 23 2016

06/24/2016

Certification of Notice is hereby given:

THEREFORE, I *[Signature]*, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	<u>EQT Production Company</u>	Address:	<u>115 Professional Place PO Box 280</u>
By:	<u>Victoria Roark</u>		<u>Bridgeport WV 26330</u>
Its:	<u>Permitting Supervisor</u>	Facsimile:	<u>304-848-0041</u>
Telephone:	<u>304-848-0076</u>	Email:	<u>vroark@eqt.com</u>



Subscribed and sworn before me this 22 day of March 2016.
[Signature] Notary Public
 My Commission Expires 8-24-22

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

4709502351

Received
Office of Oil & Gas
MAR 23 2016

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 3-16-16 Date Permit Application Filed: 3-16-16

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: See attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: see attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: see attached
Address: _____

COAL OWNER OR LESSEE

Name: see attached
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: see attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

Received
Office of Oil & Gas
MAR 23 2016

WW6A attachment

Well 512895

Surface Owner

Donna J. Peter
733 Ridge Rd
Wilber, WV 26320



4709502351

Received
Office of Oil & Gas
MAR 23 2016

06/24/2016

WW6A attachment

Well 512895

4709502351

Surface Owner (Access/other disturbance)

Donna J. Peter
733 Ridge Rd
Wilber, WV 26320

L. Bruce & Sandra Jean Stoneking
Rt 1 Box BB
Elkins, WV 26241

James B. & Brenda J. Stoneking
2 Deerhaven Drive
Wheeling, WV 26003

Diane L. & Glenn W. Morgan
590 Isner Creek Road
Elkins, WV 26241

Richard Metcalf
415 Wildlife Lane
Bridgeport, WV 26330

Received
Office of Oil & Gas
MAR 23 2016

06/24/2016

WW6A attachment

Well 512895

Surface Owner (Pit/Impoundments)

Donna J. Peter ✓
733 Ridge Rd
Wilber, WV 26320

Richard Metcalf ✓
415 Wildlife Lane
Bridgeport, WV 26330

4709502351

Received
Office of Oil & Gas
MAR 23 2016

06/24/2016

WW-6A Attachment

Well: 512895

Coal Owner:

Rosemary Brandon
3913 Delaware Ave
Kenner LA 70065



4709502351

Received
Office of Oil & Gas
MAR 23 2016

06/24/2016

WW-6A Attachment

Well : 512895

Water Well Owners

Donna J Peter
733 Ridge Road
Wilber WV 26320

L. Bruce & Sandra Jean Stoneking
RR 1 Box 304-BB
Elkins WV 26241

Frank & Elizabeth Abruzzino
91 Springhill Chapel Rd
Clarksburg WV 26301

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Office of Oil & Gas
MAR 23 2016

06/24/2016

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal or determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://wwwiv.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

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A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A
(8-13)

API NO. 47- 095 -
OPERATOR WELL NO. 512895
Well Pad Name: WEU4

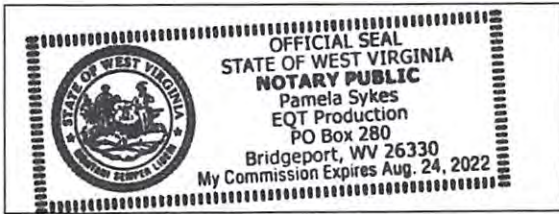
Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



[Handwritten Signature]

Subscribed and sworn before me this 22 day of Mar, 2016.

[Handwritten Signature]

Notary Public

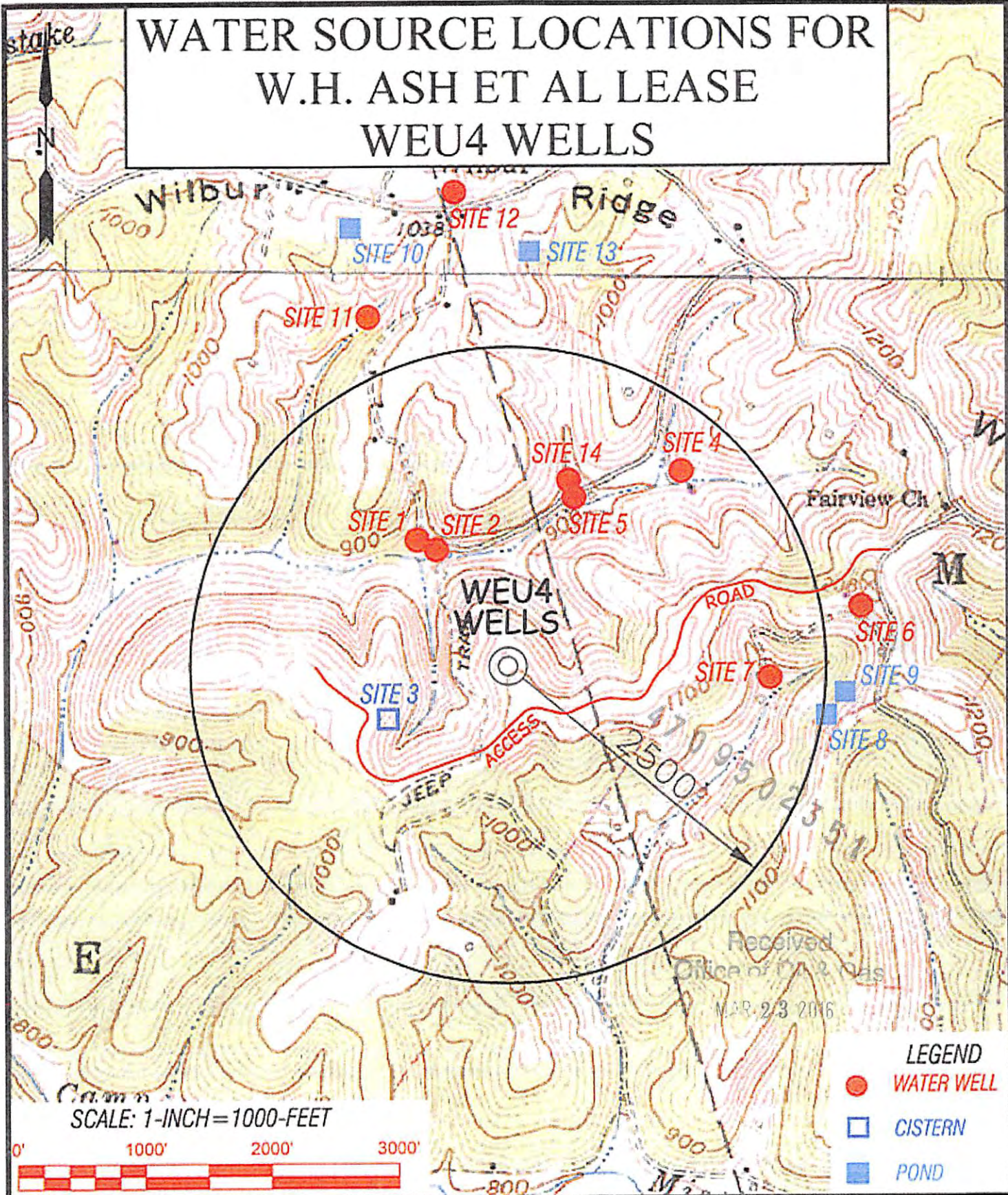
My Commission Expires 8-24-22

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WATER SOURCE LOCATIONS FOR W.H. ASH ET AL LEASE WEU4 WELLS



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MAR 23 2016

- LEGEND**
- WATER WELL
 - CISTERN
 - POND

Professional Energy Consultants
A DIVISION OF SMITHLAND SURVEYING, INC.

SLS
SURVEYING
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

DRAWN BY: K.O.W.
FILE NO.: 7701
DATE: 05/27/15
CADD FILE: 7701W2MCU4.dwg

TOPO SECTION OF:
WEST UNION, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
CENTERVILLE	TYLER	16-22

OPERATOR:
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26308

06/24/2016

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 2-29-16 **Date Permit Application Filed:** 3-10-16

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: see attached Name: _____
Address: _____ Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>WV</u>	UTM NAD 83	Eastings:	<u>515456.77</u>
County:	<u>Tyler</u>		Northing:	<u>4357458.74</u>
District:	<u>Centerville</u>	Public Road Access:		<u>US19</u>
Quadrangle:	<u>West Union</u>	Generally used farm name:		<u>Donna J. Peter</u>
Watershed:	<u>Tributary of Camp Mistake Run</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 115 Professional Place
Bridgeport, WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0040

Authorized Representative: _____
Address: _____
Telephone: _____
Email: _____
Facsimile: _____

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MAR 23 2016

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A4

Well 512895

Donna J Peter ✓
733 Ridge Road
Wilber WV 26320

L Bruce & Sandra Jean Stoneking ✓
Rt 1 Box BB-304
Elkins WV 26241

James B & Brenda J Stoneking ✓
2 Deerhaven Dr
Wheeling WV 26241

Diane L & Glenn W Morgan ✓
590 Isner Creek Rd
Elkins WV 26241

Richard Metcalf ✓
415 Wildlife Lane
Bridgeport WV 26330

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**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION**

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 3-16-16 Date Permit Application Filed: 3-16-16

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: see attached Name: _____
Address: _____ Address: _____

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Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>WV</u>	UTM NAD 83	Easting: <u>515458.77</u>
County: <u>Tyler</u>		Northing: <u>4357458.74</u>
District: <u>Centerville</u>	Public Road Access: <u>US19</u>	
Quadrangle: <u>West Union</u>	Generally used farm name: <u>Donna J. Peter</u>	
Watershed: <u>Tributary of Camp Mistake Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: EQT Production Company Address: 115 Professional Place
Telephone: 304-848-0078 Bridgeport, WV 26330
Email: vroark@eql.com Facsimile: 304-848-0040

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WW-6A5

Donna J Peter
733 Ridge Road
Wilber WV 26320

L Bruce & Sandra Jean Stoneking
Rt 1 Box BB
Elkins WV 26241

James B & Brenda J Stoneking
2 Deerhaven Dr
Wheeling WV 26241

Diane L & Glenn W Morgan
590 Isner Creek Rd
Elkins WV 26241

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

Revised September 4, 2015

4709502351

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the WEU 4 Well Pad, Tyler County

512890 WEU4H1	512891 WEU4H2	512892 WEU4H3
512893 WEU4H4	512894 WEU4H5	512895 WEU4H6
516534 WEU4H7	516535 WEU4H8	516536 WEU4H9
516537 WEU4H10	516538 WEU4H11	516539 WEU4H12
516540 WEU4H13	516600 WEU4H14	516601 WEU4H15

Dear Mr. Martin,

This well site will be accessed from DOH Permit #06-2015-0241 issued to EQT Production Company for access to the State Road for a well site located off of Tyler County Route 58 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton P.E.
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-6
File

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MAR 23 2016

Anticipated Frac Additives
Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphonium chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

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PROJECT INFORMATION

PROJECT NAME: WEU4
 TAX PARCEL: MCELROY AND CENTERVILLE DISTRICTS
 TYLER COUNTY, WV
 TAX MAP 16 PARCEL 22

SURFACE OWNER: DONNA J. PETER
 TOTAL PROPERTY AREA: 113.44 ACRES
 TAX MAP 16 PARCEL 22

L.B. & SANDRA STONEKING
 TOTAL PROPERTY AREA: 69.443 ACRES
 TAX MAP 21 PARCEL 28

OWNER: RICHARD & YVONNE METCALF
 TOTAL PROPERTY AREA: 61.571 ACRES
 TM 16 17

OIL AND GAS ROYALTY OWNER: WACO OIL & GAS CO. INC ET AL
 WEST UNION DISTRICT
 DOORBRIDGE COUNTY, WV
 TOTAL PROPERTY AREA: 152 + ACRES

SITE LOCATION: THE WEU4 WELL SITE IS SITUATE ON THE WATERS OF CAMP MISTAKE RUN APPROXIMATELY 0.56 MILES WEST OF COUNTY ROUTE 62. THE ENTRANCE IS LOCATED APPROXIMATELY 0.20 MILES SOUTHWEST FROM THE INTERSECTION OF COUNTY ROUTE 62 AND COUNTY ROUTE 58.

LOCATION COORDINATES

WEU4 SITE ENTRANCE
 LATITUDE: 39.289229 LONGITUDE: -80.816071 (NAD 83 NORTH)

WEU4 RIG FOOTPRINT
 LATITUDE: 39.289719 LONGITUDE: -80.820708 (NAD 83 NORTH)

WEU4 FLOW PAD
 LATITUDE: 39.285489 LONGITUDE: -80.820659 (NAD 83 NORTH)

WEU4 FLOWBACK PIT
 LATITUDE: 39.285316 LONGITUDE: -80.821116 (NAD 83 NORTH)

WEU4 TRUCK PAD
 LATITUDE: 39.264962 LONGITUDE: -80.821587 (NAD 83 NORTH)

WEU4 COMPLETION PIT MANIFOLD PAD
 LATITUDE: 39.265408 LONGITUDE: -80.824945 (NAD 83 NORTH)

WEU4 COMPLETION PIT
 LATITUDE: 39.265694 LONGITUDE: -80.825816 (NAD 83 NORTH)

SITE DISTURBANCE COMPUTATIONS

ACCESS ROAD NO 1 & NO 2 = 6.014 ACRES
 STOCKPILE SITES 1-6 = 4.28+ ACRES
 RIG FOOTPRINT = 3.25 ACRES
 MANIFOLD PAD & FLOWBACK PIT = 2.311 ACRES
 COMPLETION PIT = 3.33+ ACRES
 TOTAL SITE DISTURBANCE = 19.184 ACRES

ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENTRANCE PERMIT (FORM MM-100) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN TICKET #1326178253. IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS LOCATED IN FEMA FLOOD ZONE X. PER THE FLOOD INSURANCE RATE MAP (FIRM) NUMBER 54095C0300C, DATED MAY 3, 2010.

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 25-26, 2013 BY POTESTA AND ASSOCIATES, INC TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE MAY 28, 2013 REPORT PROJECT # 0101-11-147-15701 WAS PREPARED BY POTESTA AND ASSOCIATES, INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFORESAIDED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS REPORT FROM THE ENGAGING AGENCY OF THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLANDS AND STREAM CROSSINGS.

HORIZONTAL & VERTICAL CONTROL

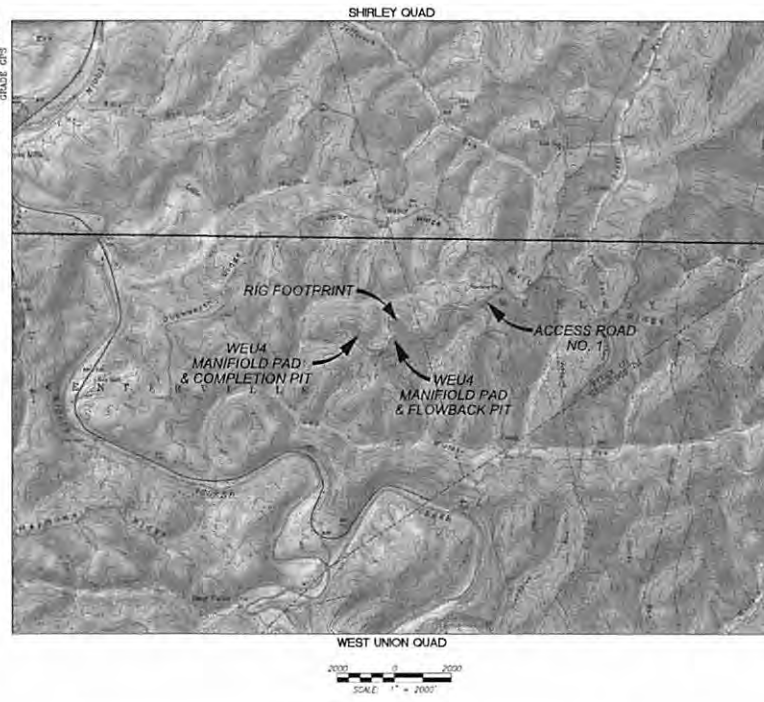
COORDINATES AND ELEVATIONS USED FOR ALL LAYOUTS AND DESIGNS WERE BASED UPON MAPPING FURNISHED BY SMITH LAND SURVEYING.

MISS Utility of West Virginia
 1-800-245-4848
 West Virginia State Law
 (Section XIV, Chapter 24-C)
 Requires that you call two
 business days before you dig in
 the state of West Virginia.
IT'S THE LAW!!

WEU4 SITE PLAN EQT PRODUCTION COMPANY

SITUATE ON THE WATERS OF CAMP MISTAKE RUN IN
 MCELROY AND CENTERVILLE DISTRICTS,
 TYLER COUNTY, WEST VIRGINIA

CHINA RIVER AND CAMP MISTAKE RUN
 WATERSHEDS ESTABLISHED BY SURVEY
 GRADE DATS



LIST OF DRAWINGS

- 1 - COVER SHEET
- 2 - NOTES
- 3 - OVERALL SHEET INDEX & VOLUMES
- 4 - EXISTING UTILITY PLAN
- 5-7 - ACCESS ROAD PLAN
- 9 - RIG FOOTPRINT DET
- 10-11 - FLOWBACK PIT NO. 1 SECTIONS
- 12-13 - FLOWBACK PIT NO. 2 SECTIONS
- 14 - TYPICAL SECTIONS
- 15 - ACCESS ROAD NO. 1 PROFILE
- 16-20 - ACCESS ROAD NO. 1 SECTIONS
- 21 - ACCESS ROAD NO. 1 SECTIONS & ACCESS ROAD NO. 2 PROFILE & SECTIONS
- 22 - ACCESS ROAD COORDINATE LAYOUT
- 23 - 24 TOPSOIL STORAGE AREAS PROFILES & SECTIONS
- 25 - SPOIL STORAGE AREA PROFILE & SECTIONS
- 26 - 29 - WEU4 RECLAMATION PLANS
- 30-33 - CONSTRUCTION DETAILS



DISTURBED AREA BY PROPERTY OWNER

PROPERTY OWNER	DISTURBED AREA
L.B. & SANDRA STONEKING	0.42 AC.
RICHARD & YVONNE METCALF	2.25 AC.
DONNA J. PETER	20.08 AC.
TOTAL	22.75 AC.

WEU4-NAD 83 WELL LOCATIONS

WELL	WV	WELL STATUS	API	LAT	LONG	NORTHING	EASTING
H1	512890	PROPOSED	67-095-0227A	39.284643	80.820488	51859.60	09255.70
H2	512891	PROPOSED	67-095-0227B	39.284656	80.820618	51859.63	09255.09
H3	512892	PROPOSED	67-095-0228A	39.284558	80.820829	51859.62	09260.18
H4	512893	PROPOSED	67-095-0228B	39.284628	80.820929	51859.61	09263.88
H5	512894	PROPOSED	59.264890	80.820589	81.8543.41	09265.27	
H6	512895	PROPOSED	59.264827	80.820519	81.8519.43	09260.88	
H7	516834	PROPOSED	59.264811	80.820569	81.8525.47	09268.05	
H8	516835	PROPOSED	59.264804	80.820427	81.8510.57	09259.56	
H9	516836	PROPOSED	59.264800	80.820407	81.8497.58	09259.95	
H10	516837	PROPOSED	59.264872	80.820787	81.8493.58	09250.31	
H11	516838	PROPOSED	59.264858	80.820787	81.8493.18	09266.75	
H12	516839	PROPOSED	59.264795	80.820757	81.8455.38	09253.13	
H13	516840	PROPOSED	59.264865	80.820629	81.8511.60	09264.18	
H14	516841	PROPOSED	59.264879	80.820738	81.8427.59	09252.9	
H15	516842	PROPOSED	59.264881	80.820788	81.8411.59	09252.50	

OPERATOR
 EQT PRODUCTION COMPANY
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 115 PROFESSIONAL PLACE
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SURVEYOR
 SMITH LAND SURVEYING, INC
 12 VANHORN DRIVE
 P.O. BOX 150
 GLENVILLE, WV 26351
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Professional Energy Consultants
 A MEMBER OF BETHLEHEM ENERGY INC.
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MANAGERS
 WWW.BETHLEHEM.COM



THIS DOCUMENT WAS
 PREPARED BY
 RSKK ENGINEERS
 FOR EQT PRODUCTION
 COMPANY

COVER SHEET
 WEU4
 MCELROY DISTRICT
 CENTERVILLE DISTRICT
 TYLER COUNTY, WV

DATE: 04/30/2015
 SCALE: 1" = 200'
 DESIGNED BY: RWH
 FILE NO: JOB
 SHEET: 1 OF 33
 REV: 08/25/2015

RIG FOOTPRINT & FLOWBACK PIT NO. 1 LAYOUT

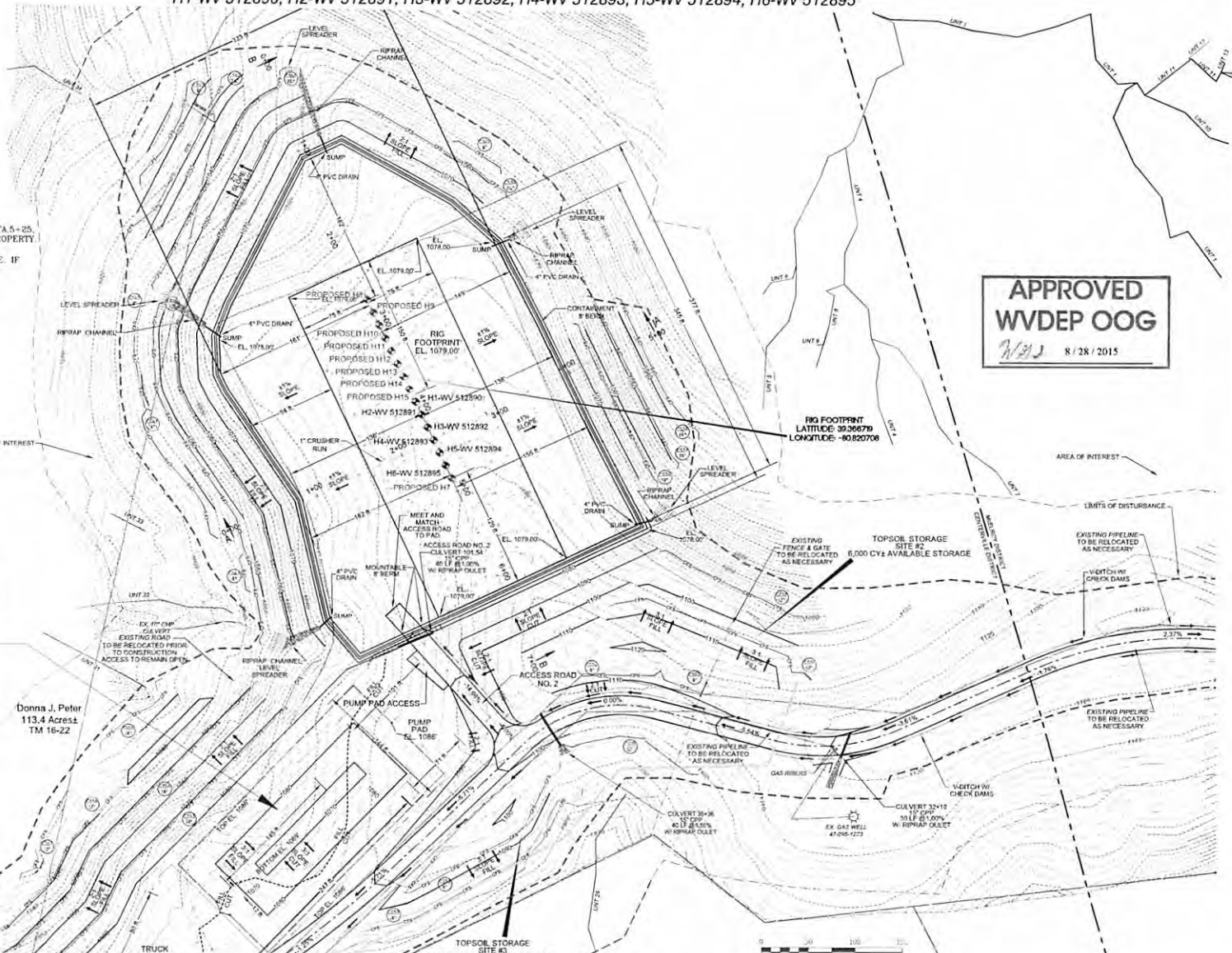
WEU4 PROPOSED WELLS

H1-WV 512890, H2-WV 512891, H3-WV 512892, H4-WV 512893, H5-WV 512894, H6-WV 512895

NOTE:

1. ALL PROPOSED DRAINAGE CULVERTS AND DRAIN PIPES SHALL HAVE ADEQUATE OUTLET PROTECTION (RIP-RAP) AS SHOWN ON THESE PLANS.
2. ALL FILL AREAS SHALL BE "KEYED IN" AND COMPACTED IN 12" LIFTS (9" RECOMMENDED) WITH A VIBRATING SHEEPSFOOT ROLLER TO 95% COMPACTION PER STANDARD PROCTER. MAXIMUM LIFTS FOR ROCK FILLS EQUAL 36"
3. ACCESS ROAD SURFACES TO BE PAVED WITH TWO 4" LIFTS OF #3-#6 LIMESTONE BENEATH 2" OF CRUSHER RUN LIMESTONE.
4. IN AREA OF ACCESS ROAD NO.1 STAT 2+00 THRU STA.5+25, ROADCUT IS STEEPER THAN 2:1 TO AVOID ADJACENT PROPERTY A GEOLOGIST SHALL FIELD INVESTIGATE THE SITE TO DETERMINE IF SLOPE AS SHOWN 1:75:1 WILL BE STABLE IF NOT, ROAD WILL REQUIRE RE-DESIGNED OR ADDITIONAL STABILIZATION METHODS UTILIZED.
5. RIG FOOTPRINT AND MANIFOLD PADS TO BE PAVED WITH TWO 4" LIFTS OF #3-#6 LIMESTONE BENEATH 2" OF CRUSHER RUN LIMESTONE.

FLOWBACK PIT	
LINER SYSTEM	- 60 MIL TEXTURED PRIMARY LINER - 10 OZ. FLEX LINER
TOTAL VOLUME	= 5,135 AC FT 1.67 MILLION GALLONS
STORAGE VOLUME	= 3,911 AC FT 1.27 MILLION GALLONS
WATER SURFACE ELEVATION	= 1084 DEPTH 15.0 FT
TOP OF BERM ELEVATION	= 1086 DEPTH 17.0 FT



APPROVED WVDEP OOG
8/28/2015

Note: All fill areas will utilize a toe bench and will be "keyed in". Fill will be placed in 12" maximum loose lifts, maximum particle size of 6", compacted to 95% per standard proctor (ASTM D-698) with a vibrating sheepsfoot roller, and on a level surface. See toe bench detail.

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PROJECT MGMT.
WWW.BERTELLO.COM
DCA 16-0484



THIS DOCUMENT WAS PREPARED BY: RUMBLE, KLEPPER & ASSOCIATES, INC. FOR: EOT PRODUCTION COMPANY

RIG FOOTPRINT & FLOWBACK PIT NO. 1
WEU4
MCELROY DISTRICT
TYLER COUNTY, WV

DATE: 04/29/2015
SCALE: 1" = 50'
DESIGNED BY: HWH
FILE NO: 20B
SHEET: 9 OF 33
REV: 08/25/2015