



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

August 28, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-9502278, 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: 512890

Farm Name: PETER, DONNA J.

API Well Number: 47-9502278

Permit Type: Horizontal 6A Well

Date Issued: 08/28/2015

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 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. 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.

4709502278

API NO. 47 (X)5
OPERATOR WELL NO 512890
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
Operator ID 306686 County 095 District 1 Quadrangle 671

2) Operator's Well Number: 512890 Well Pad Name WEU4

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

4) Elevation, current ground: 1,096.0 Elevation, proposed post-construction: 1,078.0

5) Well Type: (a) Gas Oil Underground Storage
Other _____

(b) If Gas: Shallow Deep
Horizontal

6) Existing Pad? Yes or No: No

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):
Target formation is Marcellus at a depth of 6680 with the anticipated thickness to be 54 feet and anticipated target pressure of 2747 PSI

8) Proposed Total Vertical Depth: 6680

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11132

11) Proposed Horizontal Leg Length: 3883

12) Approximate Fresh Water Strata Depths: 139, 182, 193, 211

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

14) Approximate Saltwater Depths: 1135, 1226, 1229

15) Approximate Coal Seam Depths: 237, 288, 703

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 x

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

Michael Gaff
7/28/15

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WW - 6B
(4/15)

4709502278

API NO. 17 - 095
OPERATOR WELL NO 512890
Well Pad Name: WEL-4

CASING AND TUBING PROGRAM

18)

| 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.) |
|--------------|-----------|-------------|-------|------------------------|----------------------------|------------------------------|--|
| Conductor | 20 | New | MC-50 | 81 | 40 | 40 | 38 C.T.S. |
| Fresh Water | 13 3/8 | New | J-55 | 54.5 | 361 | 361 | 336 C.T.S. |
| Coal | - | - | - | - | - | - | - |
| Intermediate | 9 5/8 | New | A-500 | 40 | 3,024 | 3,024 | 1,202 C.T.S. |
| Production | 5 1/2 | New | P-110 | 20 | 11,132 | 11,132 | See Note 1 |
| Tubing | 2 3/8 | | J-55 | 4.6 | | | |
| Liners | | | | | | | May not be run if run will be set 100 less than TD |

*MAG
7/22/15*

| 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 | 24 | 0.375 | - | 18 | Construction | 1.18 |
| Fresh Water | 13 3/8 | 17 1/2 | 0.38 | 2,730 | 2184 | * See Note 2 | 1.21 |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | 12 3/8 | 0.395 | 3,950 | 3160 | * See Note 2 | 1.21 |
| Production | 5 1/2 | 8 1/2 | 0.361 | 12,640 | 10112 | - | 1.27/1.86 |
| Tubing | | | | | | | |
| Liners | | | | | | | |

Packers

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

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

Note 2: Reference Variance 2014-17. (Attached)

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WW - 6B
(10/14)

4709502278

API NO 47 - 095
OPERATOR WELL NO 512890
Well Pad Name: VEU4

MAG
7/28/15

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. The vertical drill to go down to an approximate depth of 4924'.
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 internal casing pressures is expected to average approximately 8500 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):

19.18

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

13.17

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 Int csg shoe

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

Surface (Type 1 Cement): 0.3% Calcium Chloride

Used to speed the setting of cement slurries.

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

Intermediate (Type 1 Cement): 0.3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

Production:

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

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

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

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

60% Calcium Carbonate. Acid solubility

0.4-0.6% Halad (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 nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

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

*Note: Attach additional sheets as needed.

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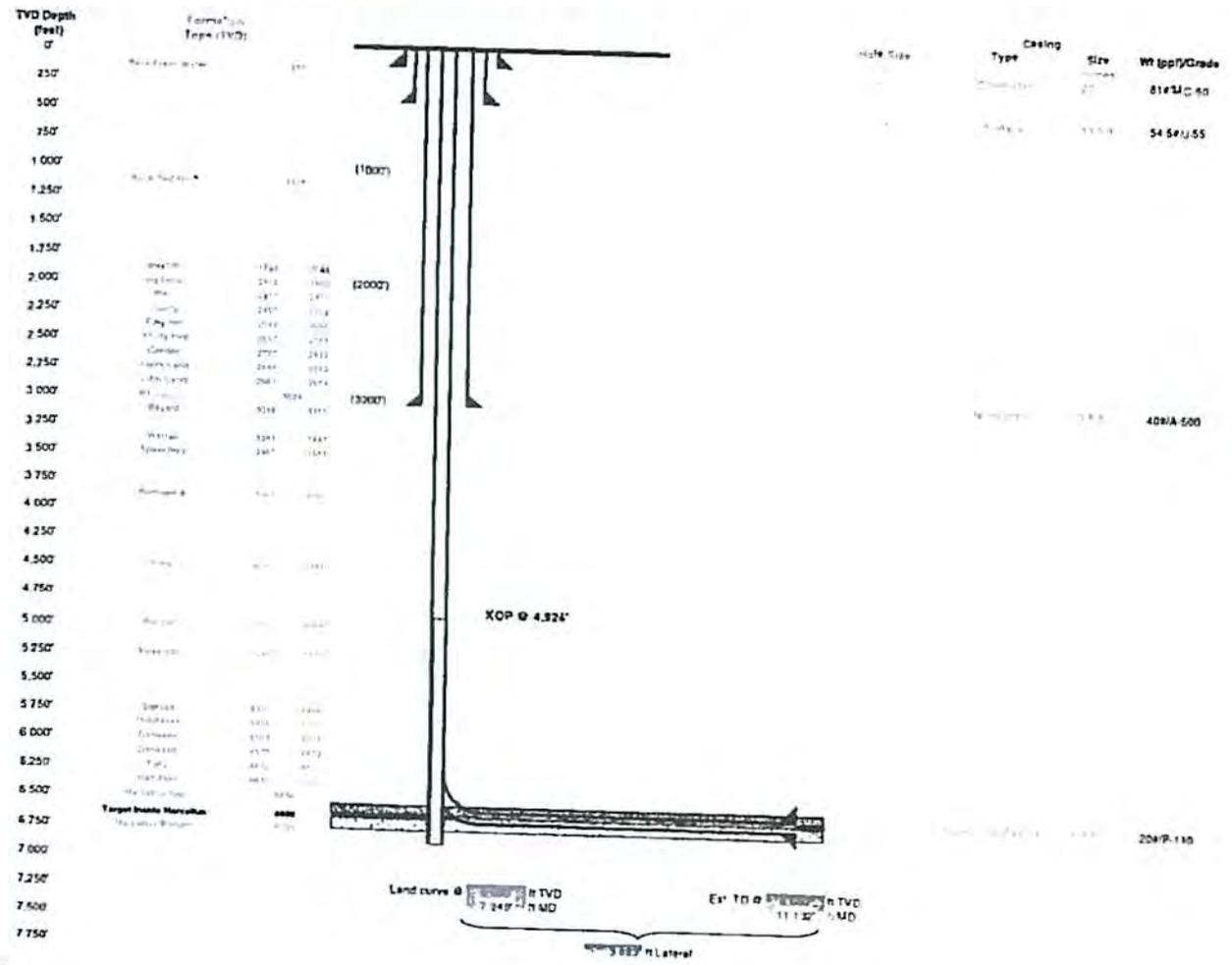
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4709502278

Well # 512890 (WEU4H1)
 EDT Production
 West Union
 Tyler West Virginia

Altwell
 Vertical Section
 2008



Proposed Well Work
 Drill and complete a new horizontal well in the Marcellus formation
 The vertical drill to go down to an approximate depth of 6500'

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MDC
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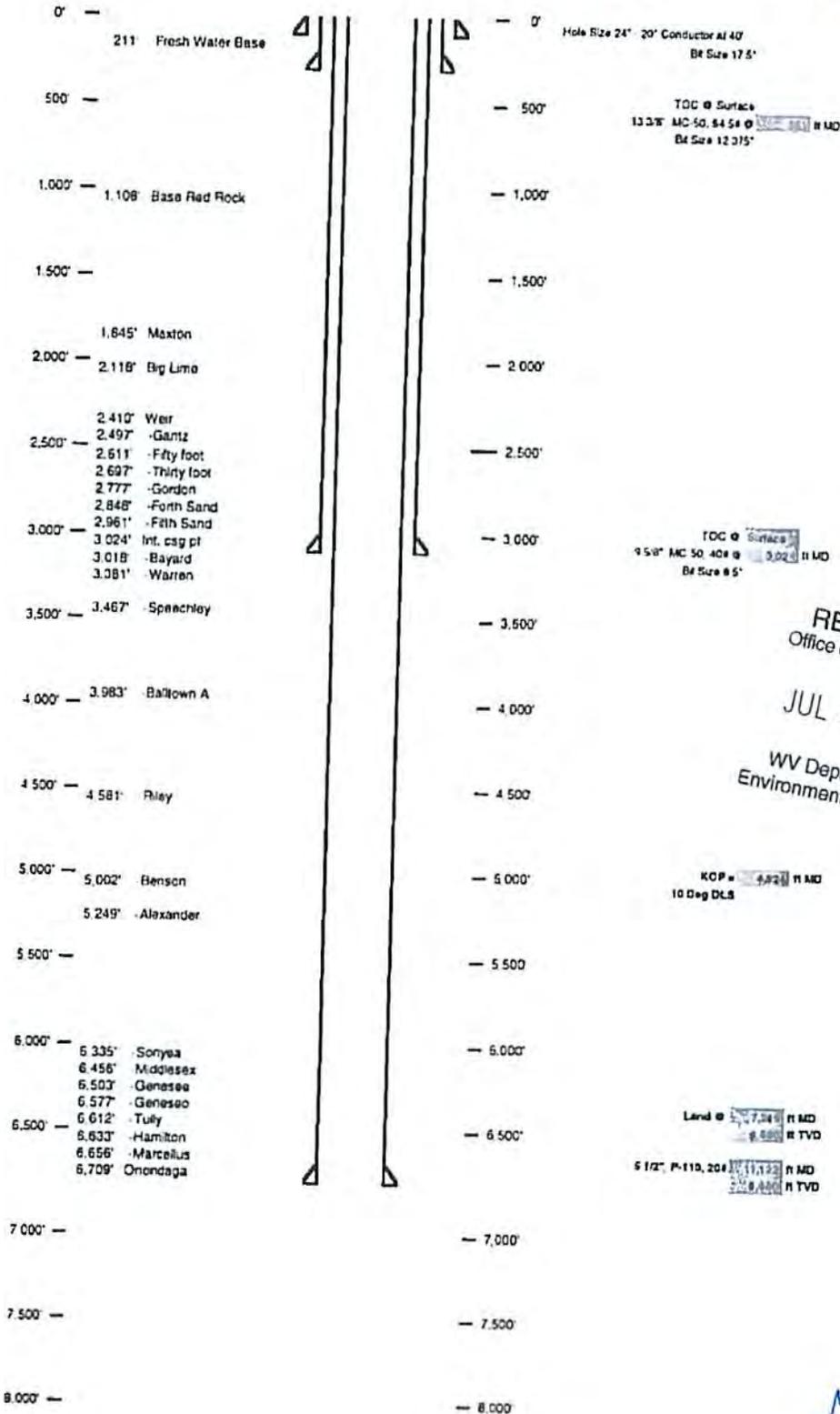
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Well Schematic
EGT Production

Well Name: 512590(WBJ4H)
County: Tyler
State: WV - J Vrg. 1

Elevation KB:
Target
Prospect
Azimuth
Vertical Section

| |
|-----------|
| 1590 |
| Marcellus |
| 335 |
| 3359 |



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

4709502278

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

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
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.h. 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 "1" 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.

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CONCLUSIONS OF LAW

4709502278

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

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May 12, 2015

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

4709502278

Re: Casing change on WEU4 (512890, 512891, 512893, 512894, 512895)

Dear Mr. Smith,

EQT is requesting the 13 3/8" surface casing to be set at 361' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 3024' KB, 50' below the base of the Fifth Sand.

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

Sincerely,

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

Vicki Roark
Permitting Supervisor-WV

Enc.

WW-9
(2/15)

Page 1 of 2
API No. 47 - 095 - 02278
Operator's Well No. 512890

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
Fluids/Cuttings Disposal & Reclamation Plan

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Operator Name EQT Production Company OP Code 306686
Watershed (HUC10) Tributary of Camp Mistake Run Quadrangle West Union 7.5'

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: X No:

If so please describe anticipated pit waste: flowback water & residual solids

Will a synthetic liner be used in the pit? Yes X 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)

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 (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.

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

Additives to be used in drilling medium? Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud - Banta viscosifier, alkalinity control, lime, filtration control, defloculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates
Oil based mud - synthetic base oil, emulsifier, salt, lime, viscosifier, alkalinity control, filtration control, defloculates, biodegradable oil lubricant, defoaming, carbonates.

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 [Signature]
Company Official (Typed Name) Victoria J. Roark
Company Official Title Permitting Supervisor

Subscribed and sworn before me this 29 day of July, 20 15

Rebecca L. Heater Notary Public

My commission expires 4-7-20



Operator's Well No. 512890

Proposed Revegetation Treatment: Acres Disturbed 19.18 Prevegetation pH 6.3

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type Granular 10-20-20

Fertilizer Amount 13 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: Michael Hoff

Comments: Preseed & Mulch any disturbed areas per WV DEP regs. Maintain & Upgrade S-r-s as necessary

Title Oil & Gas Inspector Date: 7/28/15

Field Reviewed? () Yes () No

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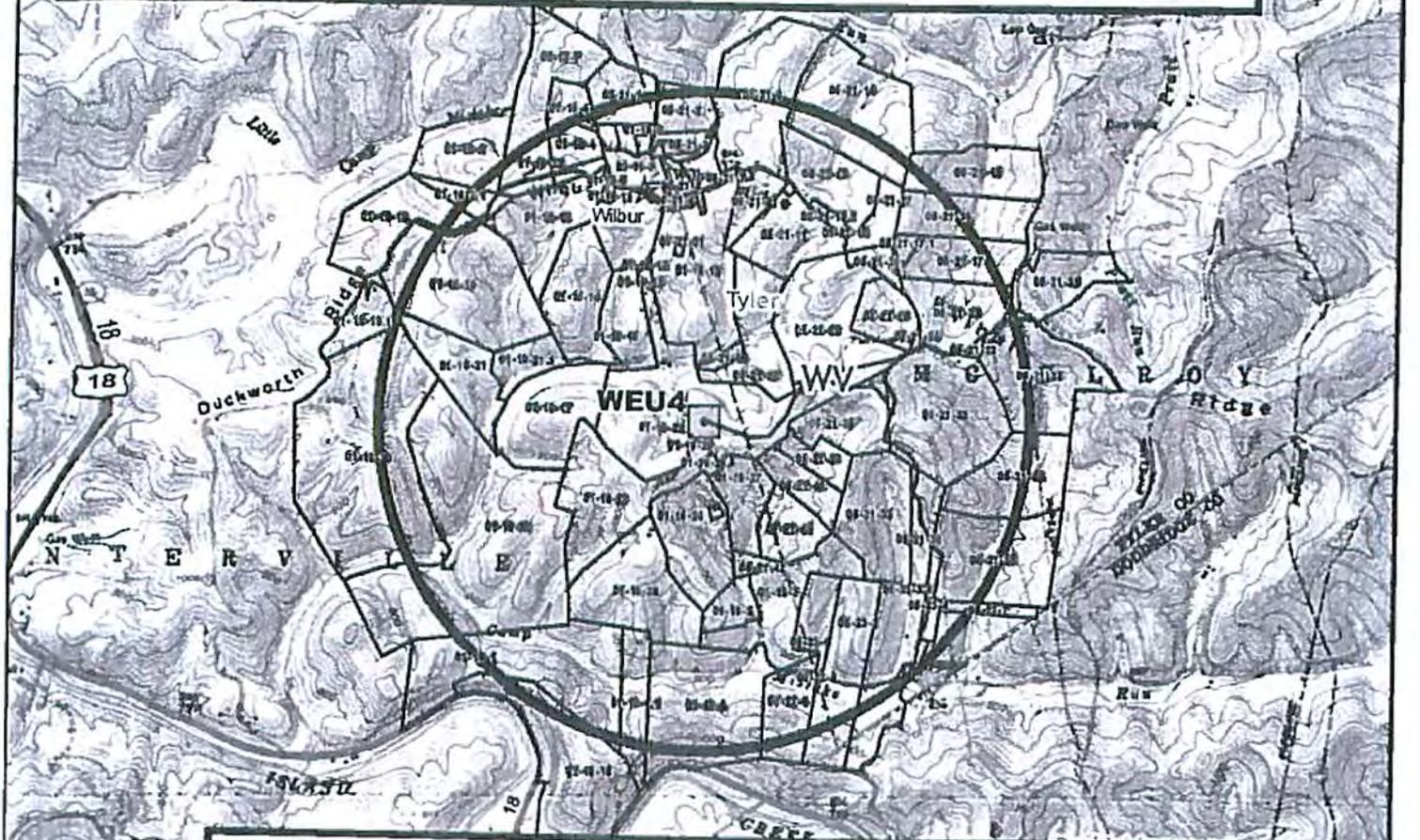
4789502278



Access Road at Entrance
Lat. 39.367119 / Long. -80.809864

Access Road at Location
Lat. 39.366611 / Long. -80.820666

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Legend

| | | | | | | | |
|--|--------------------------|--|---------------|--|--------------------------|--|-----------------|
| | Horizontal PUD Locations | | Access Routes | | Railroads | | College |
| | Safety Buffer | | Highways | | Counties | | Fire Department |
| | LANDMARKS | | Interstates | | Hospital | | School |
| | Access Route | | Major Roads | | Environmental Department | | |
| | | | Streets | | | | |

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Church
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EQT
120 Professional Place
Bridgeport, WV 26330

Site Safety Plan

WEU4
One Mile Safety Buffer
Tyler County, WV

DISCLAIMER
ALL INFORMATION PROVIDED ON THIS MAP HAS BEEN PREPARED BY EQT. EQT MAKES NO WARRANTY, REPRESENTATION OR GUARANTEE AS TO THE ACCURACY, COMPLETENESS, OR QUALITY OF THE INFORMATION PROVIDED ON THIS MAP. EQT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS MAP. EQT SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THIS MAP. EQT SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THIS MAP. EQT SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THIS MAP.

MAG
7/29/15

EQT Production Water plan
Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

4709502273

BROAD STREET ENERGY LLC

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRIAD ENERGY

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

KING EXCAVATING CO.

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

Waste Management - Meadowfill Landfill

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

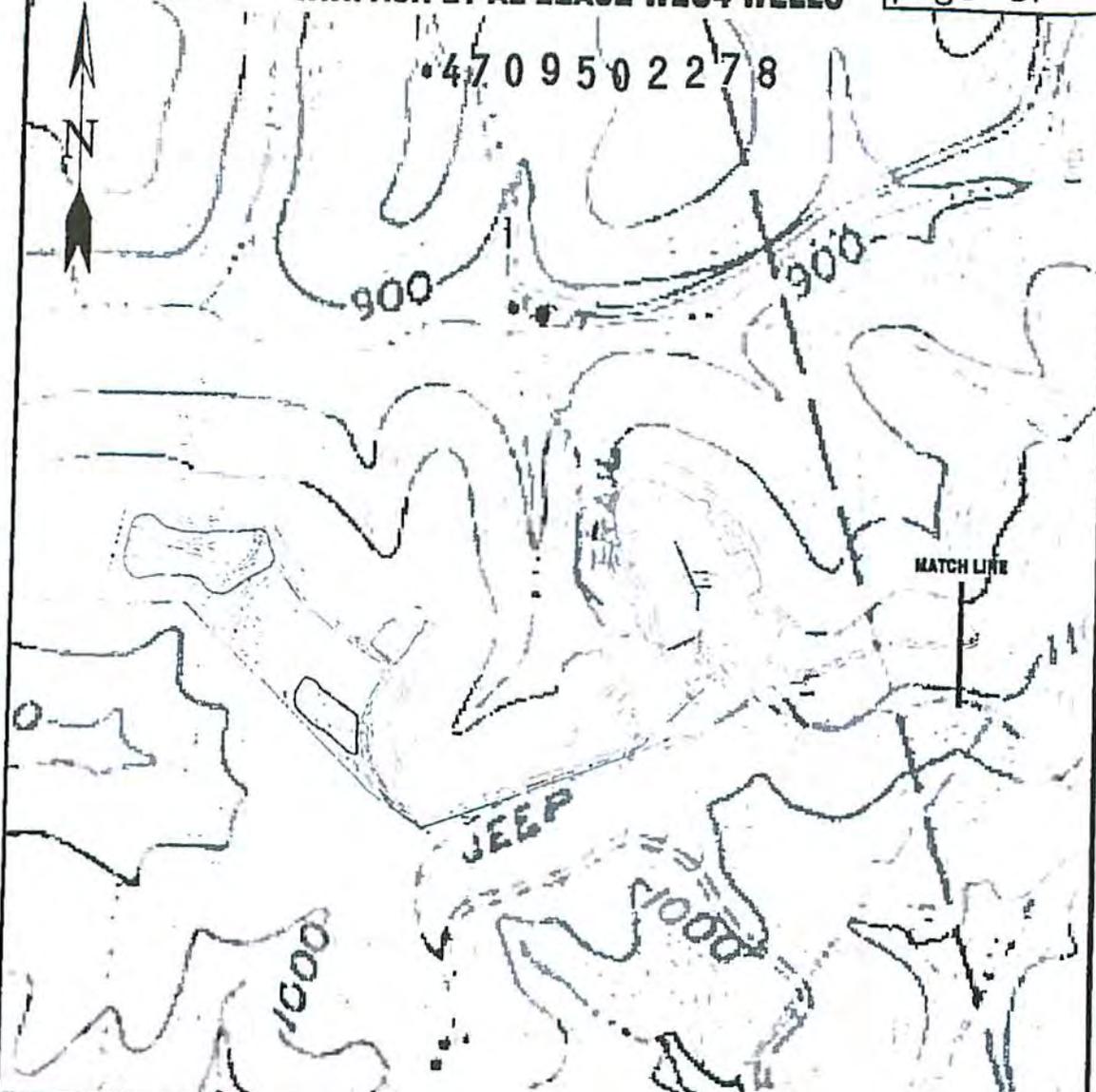
Waste Management - Northwestern Landfill

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

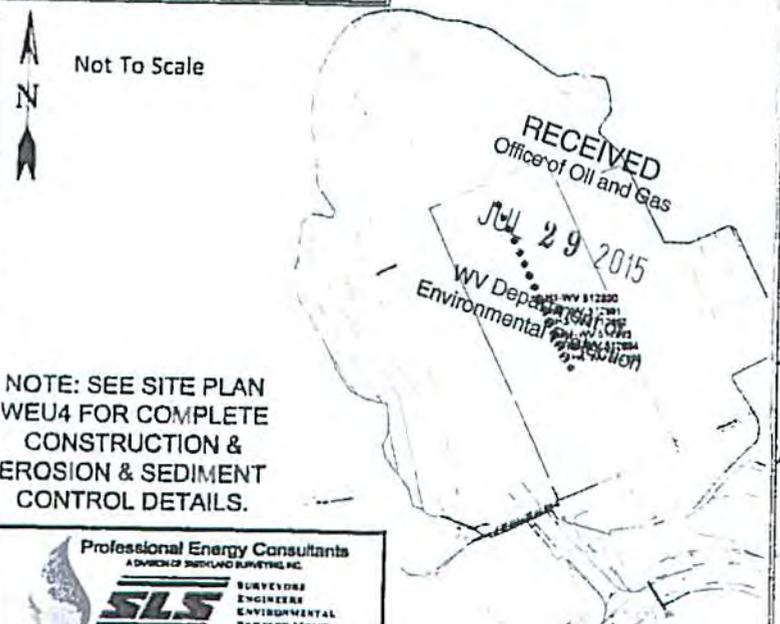
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Detail Sketch for Proposed WEU4 Wells

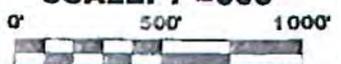


NOTE SEE SITE PLAN WEU4 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

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



SHEET 2 OF 2
SCALE: 1"=500'



| | | | |
|--------------------|-----------------|------------------|------------------------------|
| DRAWN BY K D.W. | FILE NO 7701 | DATE 06-18-15 | CADD FILE: 7701EPLAM2.dwg |
|--------------------|-----------------|------------------|------------------------------|

TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE

MAG
7/28/15

MDC
7/05/15

| | | | |
|---|--|---------------------------------|------------------|
| Professional Energy Consultants A DIVISION OF BENTLEY SYSTEMS INC. | SLS SURVEYING ENGINEERING PROJECTS | DATE: 06-18-15 FILE NO: 7701 | DRAWN BY: K.D.W. |
| CADD FILE: 7701CADD.dwg | | PROJECT NAME: [illegible] | |

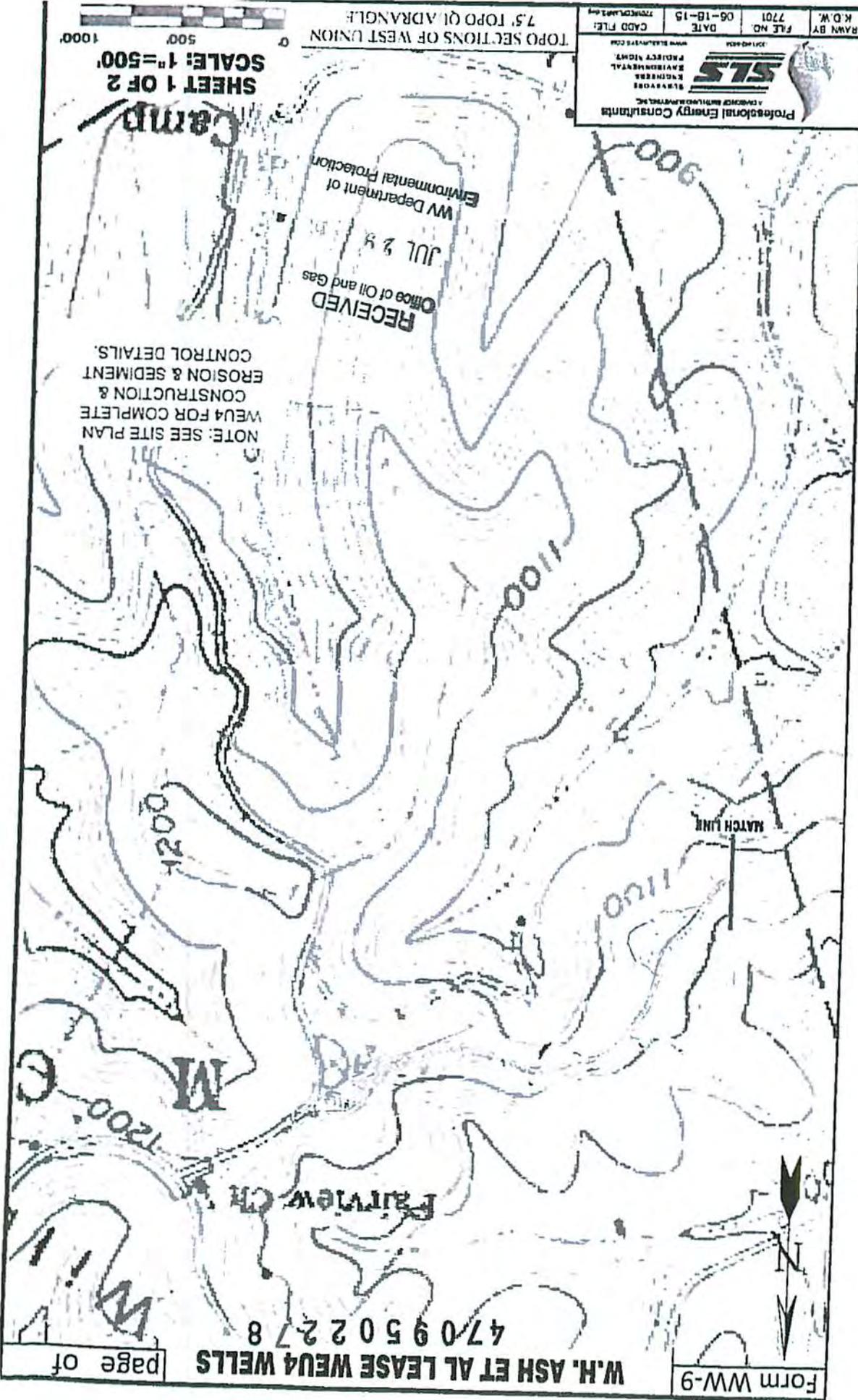
TOPO SECTIONS OF WEST UNION
7.5' TOPO (1/4" ADRIANGLE)



SHEET 1 OF 2
SCALE: 1"=500'

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

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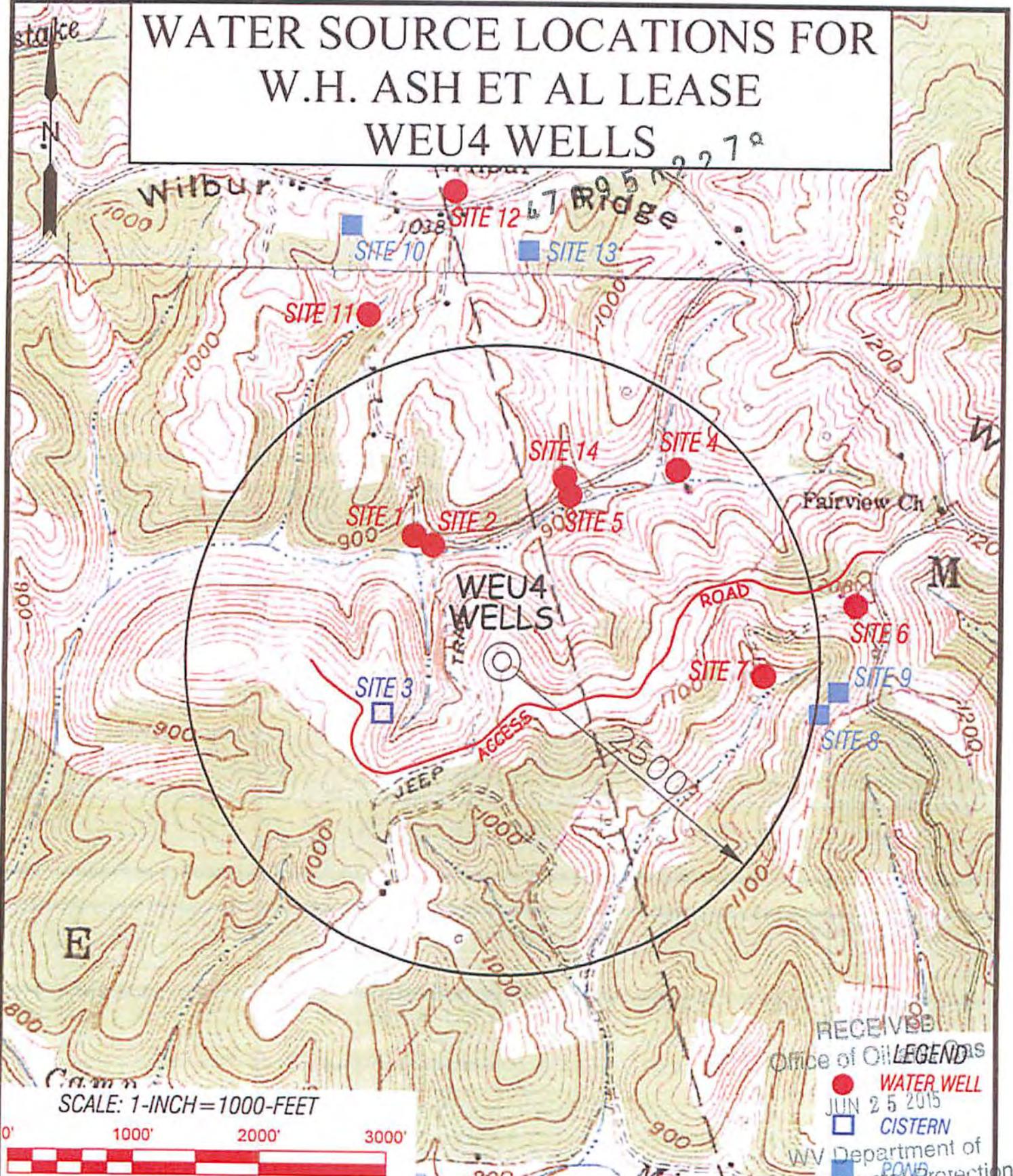
W.H. ASH ET AL LEASE WEU4 WELLS

4709502278

Form WW-9

page of

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



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LEGEND
● WATER WELL
■ CISTERN

SCALE: 1-INCH=1000-FEET

Professional Energy Consultants
ADVISORS OF STATE LAND SURVEYING, INC.
SLS
SURVEYING
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

TOPO SECTION OF:
WEST UNION, WV 7.5' QUAD

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

| | | | |
|--------------------|------------------|------------------|-----------------------------|
| DRAWN BY K.D.W. | FILE NO. 7701 | DATE 05/27/15 | CADD FILE: 7701WSMUA.dwg |
|--------------------|------------------|------------------|-----------------------------|

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

4709502278



Where energy meets innovation.™

Site Specific Safety Plan

EQT WEU 4 Pad

Alma
Tyler County, WV

512890

For Wells:

Michael Huff
EQT Production
Permitting Supervisor
Title
6-23-15
Date

Date Prepared:

May 6, 2015

Michael Huff
WV Oil and Gas Inspector
Title
7/28/15
Date

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WV Department of
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**EQT PRODUCTION COMPANY
W.H. ASH ET AL LEASE
152 ACRES±
WELL NO. WV 512890**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT) N. 318,364.31 E. 1,626,574.86
NAD'27 GEO. LAT-(N) 39.366561 LONG-(W) 80.819409
NAD'83 UTM (M) N. 4,357,479.93 E. 515,448.20

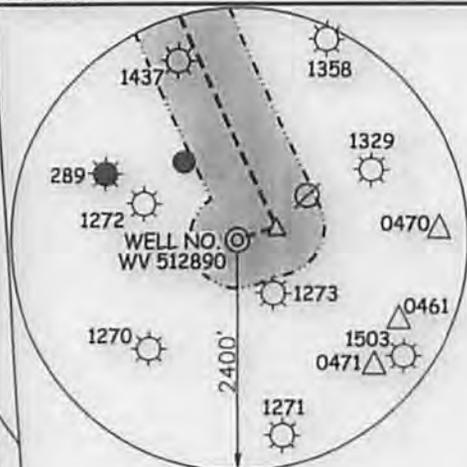
LANDING POINT

NAD'27 S.P.C.(FT) N. 318,501.57 E. 1,626,981.63
NAD'27 GEO. LAT-(N) 39.366955 LONG-(W) 80.819409
NAD'83 UTM (M) N. 4,357,523.82 E. 515,571.42

BOTTOM HOLE

NAD'27 S.P.C.(FT) N. 322,020.32 E. 1,625,340.82
NAD'27 GEO. LAT-(N) 39.376548 LONG-(W) 80.825396
NAD'83 UTM (M) N. 4,358,587.46 E. 515,053.66

NAD'27 GRID NORTH



LEGEND

| | |
|-------------------------------------|---------|
| LEASE LINE | --- |
| SURFACE LINE | ---- |
| WELL LATERAL | ----- |
| OFFSET LINE | ----- |
| TIE LINE | ----- |
| CREEK | ~~~~~ |
| ROAD | ==== |
| FENCE LINE | ---x--- |
| 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 |

CORNER TIES BEARING & DISTANCE

| | | |
|----|------------|----------|
| L1 | N 67°45' E | 1377.32' |
| L2 | S 33°45' E | 875.64' |

LATERAL PATH BEARING & DISTANCE

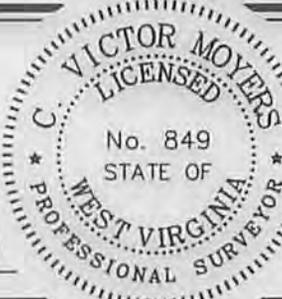
| | | |
|----|------------|----------|
| L3 | N 71°21' E | 429.30' |
| L4 | N 25°00' W | 3882.50' |

| Block | Owner | Acres | Notes |
|-------|--------------------------------|------------|------------|
| A | BRADLEY D. DAVIS | 2.73 AC± | |
| B | WILLIAM DOLL ET AL | 0.50 AC± | |
| C | WILLIAM DOLL ET AL | 0.49 AC± | |
| D | WILLIAM DOLL | 1 AC± | |
| E | FRIEDRIKE DOHRMANN | 7.067 AC± | |
| F | WILBUR COMMUNITY CLUB | 0.95 AC± | |
| G | JOHN STARKEY | 7.888 AC± | |
| H | CHRIS A. BAUM ET AL | 0.84 AC± | |
| I | TERRY G. WEEKLEY | 1.182 AC± | |
| J | RUTHO. & OLIN L. DOLL | 1 AC± | |
| K | GARY PROSSER | 0.30 AC± | |
| L | GARY & BARBARA PROSSER | 2.50 AC± | |
| M | WILBUR CEMETERY | 2 AC± | |
| N | WILBUR CHAPEL | 0.84 AC± | |
| O | WILBUR CEMETERY COMMUNITY INC. | 0.197 AC± | |
| P | BRADLEY D. DAVIS | 14 AC± | |
| Q | ELIZABETH ABRUZZINO | 109.94 AC± | TM C-16-13 |
| R | HOWARD SHRIVER ET AL | 24.84 AC± | |
| S | L.B. & SANDRA STONEKING | 69.44 AC± | |
| T | RICHARD & YVONNE METCALF | 0.61 AC± | |
| U | JOHN & SANDRA ANDERS | 0.09 AC± | |
| V | JOHN & SANDRA ANDERS | 10.75 AC± | |
| W | RICHARD & YVONNE METCALF | 61.57 AC± | |
| X | DONNA J. PETER | 113.4 AC± | TM C-16-22 |
| Y | BOBBY D. DOLL ET AL | .49 AC± | |
| Z | PERRY J. HAUGHT | 16.21 AC± | |

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
(204) 482-5434
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.

P.S. 849 *C. Victor Moyers*



ROYALTY OWNERS

| | | |
|---------------------------------------|--------|------------------|
| PATRICIA S. DOTSON LIVING TRUST ET AL | 52 AC± | LEASE NO. 128148 |
| KENNETH MASON ET AL | 20 AC± | LEASE NO. 126150 |

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.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JUNE 13, 20 14
REVISED 06/04/15 & 06/18/15
OPERATORS WELL NO. WV 512890
API WELL NO. 47-095-02278 H6
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 7701P512890R2
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

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

LOCATION: ELEVATION 1,096'(GROUND)1,078'(PROPOSED) 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 & GAS CO. INC. ET AL ACREAGE 152±
PROPOSED WORK: LEASE NO. 126129
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 TVD 6,696'

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

WW-6A
(8-13)

API NO. 47 - 095 - 0
OPERATOR WELL NO. 512890
Well Pad Name: WEU4

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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Office of Oil and Gas
JUN 25 2015
WV Department of
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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 on 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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JUN 25 2015
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Environmental Protection

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://www.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.

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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Office of Oil and Gas

JUN 25 2015

WV Department of
Environmental Protection

Notice is hereby given by:

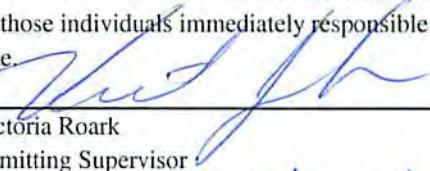
Well Operator: EQT Production Company
Telephone: 304-848-0082
Email: Vroark@eqt.com

Address: 115 Professional Place P.O. 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.

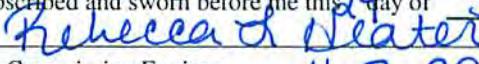
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.



By: Victoria Roark

Its: Permitting Supervisor

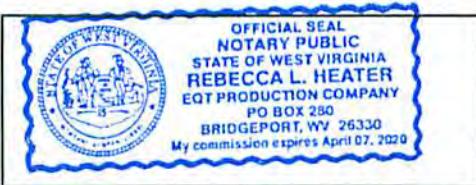
Subscribed and sworn before me this 24 day of June, 2015



Notary Public

My Commission Expires

4-7-20



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JUN 25 2015
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4709502278

**WW6-A
Additional Coal Owners**

Rosemary Brandon
3013 Delaware Avenue
Kenner, LA 70065

Oletha G. Moore or Heirs and Assigns
2428 Dewey Ave
Munhall PA 15120

Surface Owners(road or other disturbance):

James B. and Brenda J. Stoneking
2 Deerhaven Drive
Wheeling WV 26241

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

Richard and Yvonne Metcalf
128 Village Drive
Bridgeport WV 26330

Surface Owners(Pits or Impoundments):

Richard and Yvonne Metcalf
128 Village Drive
Bridgeport WV 26330

Additional Water Purveyors

Bruce Stoneking
R.D. 1 Box BB
Elkins WV 26241

Frank and Elizabeth Abruzzino
91 Springhill Chapel Road
Clarksburg, WV 26301

Received
Office of Oil & Gas
JUL 06 2015

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)

4709502270

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 |
|----------------------|------------------------------|------------------------------|------------|-------------------------|
| <u>126129</u> | | | Min 1/8 pd | |
| | William A. Ash, et al | Equitable Gas Company | | DB191/321 |
| | Equitable Gas Company | Equitrans, Inc. | | DB274/471 |
| | Equitrans, Inc. | Equitable Production Company | | DB396/640 |
| | Equitable Production Company | EQT Production Company | | DB281/346 Doddridge Co. |
| <u>126148</u> | | | Min 1/8 pd | |
| | B.W. Pierson, Widower, et al | Equitable Gas Company | | DB191/503 |
| | Equitable Gas Company | Equitrans, Inc. | | DB274/471 |
| | Equitrans, Inc. | Equitable Production Company | | DB396/640 |
| | Equitable Production Company | EQT Production Company | | DB281/346 Doddridge Co. |
| <u>126150</u> | | | Min 1/8 pd | |
| | CNX Gas Company LLC | EQT Production Company | | DB485/724 |

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.

**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

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: [Signature]
Its: Permitting Supervisor

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Page 1 of 1
Office of Oil and Gas

JUN 25 2015

WV Department of
Environmental Protection

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

Date of Notice Certification: _____

API No. 47 - 095 - 0
Operator's Well No. 512890
Well Pad Name WEU4

2700502278

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>515,448.20</u> |
| County: <u>Tyler</u> | UTM NAD 83 Northing: <u>4,357,691.62</u> |
| District: <u>Centerville</u> | Public Road Access: <u>WV-18</u> |
| Quadrangle: <u>West Union 7.5'</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.

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:

*PLEASE CHECK ALL THAT APPLY

- NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR
- WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- NOTICE OF PLANNED OPERATION
- PUBLIC NOTICE
- NOTICE OF APPLICATION

OOG OFFICE USE ONLY

- RECEIVED/NOT REQUIRED
- RECEIVED
- RECEIVED/NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

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JUN 25 2015

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.

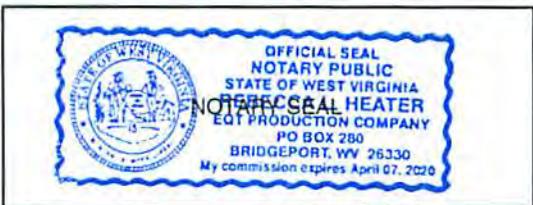
WV Department of
Environmental Protection

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: EQT Production Company
By: Victoria J. Roark
Its: Permitting Supervisor
Telephone: 304-848-0076

Address: P.O. Box 280
Bridgeport, WV 26330
Facsimile: 304-848-0040
Email: vroark@eqt.com



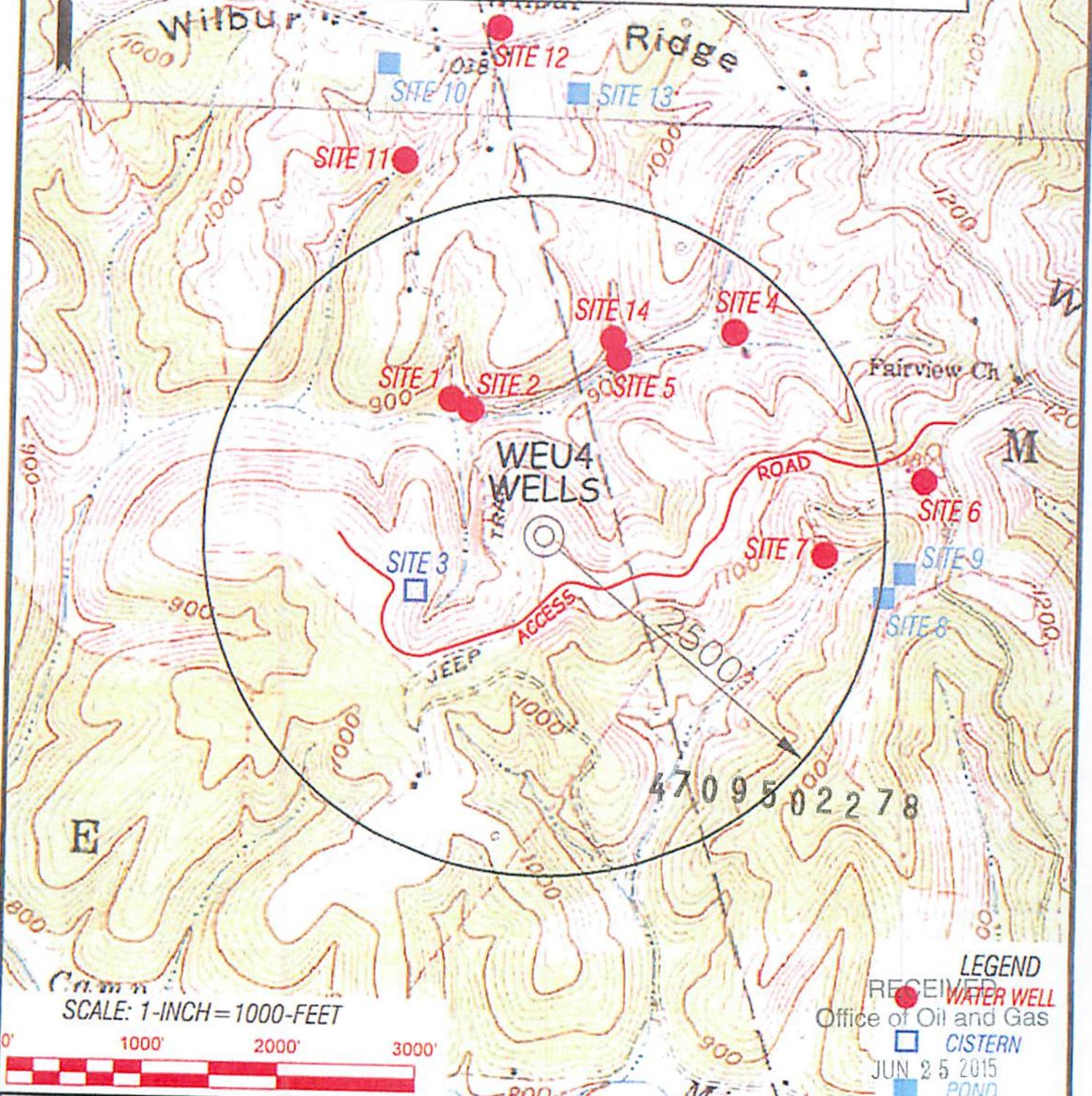
Subscribed and sworn before me this 24 day of June, 2015
Rebecca L Heater Notary Public
My Commission Expires 4-7-20

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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WV Department of
Environmental Protection

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



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Office of Oil and Gas
JUN 25 2015

LEGEND
● WATER WELL
□ CISTERN
□ POND

SCALE: 1-INCH = 1000-FEET



Professional Energy Consultants
A DIVISION OF SOUTHWEST ENERGY INC.

SLS
REGISTERED ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.

DRAWN BY: K.D.W. FILE NO: 7701 DATE: 05/27/15 CADD FILE: 7701WVWEU4.dwg

TOPO SECTION OF:
WEST UNION, WV 7.5' QUAD

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

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

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry.

Date of Notice: 3/26/2013

Date of Planned Entry: 4/2/2013

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

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

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(S)

Name: Norman E & Donna J. Peter
HC74 Box 31
Address: Wilbur, WV 26320

COAL OWNER OR LESSEE

Coal Declaration pursuant to §22-6A-10 and §22-6-36
Name: Not of Record
Address: _____

MINERAL OWNER(S)

Name: C. Phillip Fluharty, Donald G. Fluharty and Caroline Fluharty Genewick
PO Box 524
Address: Santee, SC 29142
Name: Trio Petroleum and Waco Oil & Gas
PO Box 880
Address: Glenville, WV 26351

Name: _____
Address: _____
Name: _____
Address: _____

4709502278
Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia Approx. Latitude & Longitude: 39.36664 / -80.82072
County: Tyler Public Road Access: CR58
District: Centerville / Map16 / Parcel 22 Watershed: Middle Island Creek
Quadrangle: West Union Generally Used Farm Name: Ash

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0099
Facsimile: 304-848-0040
Email: EQTLandEntryNotice@eqt.com

RECEIVED
Office of Oil and Gas
Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Kathy Kugel
Signature: Kathy Kugel JUN 25 2015
WV Department of

Oil and Gas Privacy Notice:

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

WW-6A5
(1/12)

Operator Well No. 512890

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: JUN 24 2015 Date Permit Application Filed: JUN 24 2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND 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.

4709502278

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: Donna J Peter
Address: 733 Ridge Rd
Wilbur WV 26320

Name: L. Bruce and Sandra Jean Stoneking
Address: R.D. 1 Box BB
Elkins WV 26241

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: WV UTM NAD 83 Easting: 515,448.200000
County: Tyler Northing: 4,357,691.620000
District: Centerville Public Road Access: WV-18
Quadrangle: West Union 7.5' Generally used farm name: Donna J. Peter
Watershed: Tributary of Camp Mistake Run

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
Telephone: 304-848-0082
Email: vroark@eqt.com

Address: 115 Professional Place, P.O. Box 280
Bridgeport, WV 26330
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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Office of Oil and Gas
JUN 25 2015
WV Department of
Environmental Protection

WW-6A5
(1/12)

Operator Well No. 512890

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: JUN 24 2015 Date Permit Application Filed: JUN 24 2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND 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: James B and Brenda J Stoneking
Address: 2 Deerhaven Drive
Wheeling WV 26241

Name: Diane L Morgan and Glenn W Morgan
Address: 590 Isner Creek Rd
Elkins WV 26241

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: WV UTM NAD 83 Easting: 515,448.200000
County: Tyler Northing: 4,357,691.620000
District: Centerville Public Road Access: WV-18
Quadrangle: West Union 7.5' Generally used farm name: Donna J. Peter
Watershed: Tributary of Camp Mistake Run

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
Telephone: 304-848-0082
Email: vroark@eqt.com

Address: 115 Professional Place, P.O. Box 280
Bridgeport, WV 26330
Facsimile: 304-848-0040

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Office of Oil and Gas
JUN 25 2015
WV Department of
Environmental Protection

WW-6A5
(1/12)

Operator Well No. 512890

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: _____ Date Permit Application Filed: JUN 24 2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND 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: Richard and Yvonne Metcalf
Address: 128 Village Dr
Bridgeport WV 26330

Name: _____
Address: _____

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: WV UTM NAD 83 Easting: 515,448.200000
County: Tyler Northing: 4,357,691.620000
District: Centerville Public Road Access: 4709502278 WV-18
Quadrangle: West Union 7.5' Generally used farm name: Donna J. Peter
Watershed: Tributary of Camp Mistake Run

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
Telephone: 304-848-0082
Email: vroark@eqt.com

Address: 115 Professional Place, P.O. Box 280
Bridgeport, WV 26330
Facsimile: 304-848-0040

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Office of Oil and Gas

Oil and Gas Privacy Notice:

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JUN 25 2015
WV Department of
Environmental Protection



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

June 23, 2015

4709502278

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 |
| 514052 WEU4H7 | 514053 WEU4H8 | 514054 WEU4H9 |
| 514055 WEU4H10 | | |

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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Office of Oil and Gas

JUN 25 2015

WV Department of
Environmental Protection



SMITH LAND SURVEYING, INC.

P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-6034 • FAX 462-6658

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: EQT Production Company
LEASE NAME AND NUMBER: WEU-4

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 2500' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

Site: 1 Spacing 1220' Owner/Occupant: Donna Peter
 Address: 733 ridge rd. Wilbur, WV 26320 Ph: (304)-758-4495
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.369336
Long : 80.823230
Tax Map 16, Parcel 22

Site: 2 Spacing 1075' Owner/Occupant: Donna Peter
 Address: 733 ridge rd. Wilbur, WV 26320 Ph: (304)-758-4495
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.369112
Long : 80.822699
Tax Map 16, Parcel 22

Site: 3 Spacing 1030' Owner/Occupant: Donna Peter
 Address: 733 ridge rd. Wilbur, WV 26320 Ph: (304)-758-4495
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Spring
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.365439
Long : 80.823990
Tax Map 16, Parcel 22

Site: 4 Spacing 2050' Owner/Occupant: Bruce Stoncking
 Address: RR.1 Box 304 BB Elkins, WV 26241 Ph: _____
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.370837
Long : 80.815910
Tax Map 21, Parcels 28 and 29

Received
Office of Oil & Gas

JUL 06 2015

Site: 5 Spacing 1425' Owner/Occupant: Bruce Stomking
 Address: RR 1 Box 304 BB Elkins, WV 26241 Ph: _____
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.370270
Long : 80.818867
Tax Map 21, Parcels 28 and 29

Site: 6 Spacing 2830' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd. Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.368035
Long : 80.810833
Tax Map 21, Parcel 38

Site: 7 Spacing 2070' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd. Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.366470
Long : 80.813358
Tax Map 21, Parcel 38

Site: 8 Spacing 2540' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd. Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Pond
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.365666
Long : 80.811781
Tax Map 21, Parcel 38

Site: 9 Spacing 2665' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd. Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Pond
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.366163
Long : 80.811260
Tax Map 21, Parcel 38

Site: 10 Spacing 3655' Owner/Occupant: Frank and Elizabeth Abruzzino
 Address: 91 Springhill Chapel Rd, Clarksburg, WV 26301 Ph: (304)-669-3892
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Pond
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.376041
Long : 80.825199
Tax Map 16, Parcel 10

Received
 Office of Oil & Gas
 JUL 06 2015

Site: 11 Spacing 2950' Owner/Occupant: Frank and Elizabeth Abruzzino
 Address: 91 Springhill Chapel Rd, Clarksburg, WV 26301 Ph: (304)-669-3892
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.374129
Long : 80.824661
Tax Map 16, Parcel 10

Site: 12 Spacing 3750' Owner/Occupant: Frank and Elizabeth Abruzzino
 Address: 91 Springhill Chapel Rd, Clarksburg, WV 26301 Ph: (304)-669-3892
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.376858
Long : 80.822312
Tax Map 16, Parcel 10

Site: 13 Spacing 3260' Owner/Occupant: Frank and Elizabeth Abruzzino
 Address: 91 Springhill Chapel Rd, Clarksburg, WV 26301 Ph: (304)-669-3892
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Pond
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.375580
Long : 80.820202
Tax Map 16, Parcel 10

Site: 14 Spacing 1535' Owner/Occupant: Frank and Elizabeth Abruzzino
 Address: 91 Springhill Chapel Rd, Clarksburg, WV 26301 Ph: (304)-669-3892
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.370659
Long : 80.819027
Tax Map 16, Parcel 10

Site: 15 Spacing _____ Owner/Occupant: Conrad Costlow
 Address: 13310 Middle island Rd, West Union, WV 26456 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 14

Site: 16 Spacing _____ Owner/Occupant: John McDonald Jr.
 Address: HC 74 Box 34C Alma, WV 26320 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 21, Parcel 41

Received
 Office of Oil & Gas
 JUL 06 2015

Site: 17 Spacing _____ Owner/Occupant: Paul Weekley (life)
 Address: 4500 Meelroy creek Rd. Alma, WV 26320 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 28

Site: 18 Spacing _____ Owner/Occupant: Chris and Herstine Baum
 Address: 7214 Ridgeview Dr. SE Waynesburg, OH 44688 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 23

Site: 19 Spacing _____ Owner/Occupant: Leana Lorkovich
 Address: 1719 Jackson St. Aliquippa, PA 15001 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 24

Site: 20 Spacing _____ Owner/Occupant: Stonewall Gas Company
 Address: 501 Martindale St. Ste. 500 Pittsburg, PA 15212 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 24.2

Site: 21 Spacing _____ Owner/Occupant: Richard Metcalf
 Address: 128 Village Dr. Bridgeport, WV 26330 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcels 14.1 and 17

Site: 22 Spacing _____ Owner/Occupant: John Anders
 Address: 804 Peters Run Rd. Wheeling, WV 26003 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 14.2

Received
 Office of Oil & Gas
 JUL 06 2015

Site: 23 Spacing _____ Owner/Occupant: Gary Prosser
 Address: HC 74 Box 21 Wilbur, WV 26320 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 15

Site: 24 Spacing _____ Owner/Occupant: Howard and Shannon Shriver
 Address: HCR 74 Box 22A Alma, WV 26320 Ph: _____
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: No Response To Certified Letter As Of 05/29/2015
Tax Map 16, Parcel 16

Site: _____ Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____

Site: _____ Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____

Site: _____ Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____

Site: _____ Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____

Received
 Office of Oil & Gas
 JUL 06 2015

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 |

4709502278

RECEIVED
Office of Oil and Gas
JUN 25 2015
WV Department of
Environmental Protection

PROJECT INFORMATION

PROJECT NAME: WEU4

TAX PARCEL:
MCELROY AND CENTERVILLE DISTRICTS
TYLER COUNTY, WV
TAX MAP 18 PARCELS 02

SURFACE OWNER:
DONNA J. PETER
TOTAL PROPERTY AREA: 113.44 ACRES
TAX MAP 18 PARCELS 02

L.B. & SANDRA STONEKING
TOTAL PROPERTY AREA: 69.448 ACRES
TAX MAP 25, PARCELS 06

RICHARD & YVONNE METCALF
TOTAL PROPERTY AREA: 61.574 ACRES
TM 18-17

OO AND GAS HOYALTY OWNER:
MCO 026 & GAS CO., INC. ET AL.
WEST UNION DISTRICT
LOGSKOGE COUNTY, WV
TOTAL PROPERTY AREA: 152.4 ACRES

SITE LOCATION:
THE WEU4 WELL SITE IS SITUATE ON THE WATERS OF CAMP MISTAKE RUN APPROXIMATELY 0.56 MILES WEST OF COUNTY ROUTE 58. THE ENTRANCE IS LOCATED APPROXIMATELY 0.30 MILES SOUTHWEST FROM THE INTERSECTION OF COUNTY ROUTE 62 AND COUNTY ROUTE 58.

LOCATION COORDINATES

WEU4 SITE ENTRANCE
LATITUDE: 39.264919 LONGITUDE: -80.810071 (NAD 83 NORTH)

WEU4 RIG FOOTPRINT
LATITUDE: 39.264879 LONGITUDE: -80.820708 (NAD 83 NORTH)

WEU4 PUMP PAD
LATITUDE: 39.265849 LONGITUDE: -80.820669 (NAD 83 NORTH)

WEU4 FLOWBACK PIT
LATITUDE: 39.265318 LONGITUDE: -80.821118 (NAD 83 NORTH)

WEU4 TRUCK PAD
LATITUDE: 39.264492 LONGITUDE: -80.821587 (NAD 83 NORTH)

WEU4 COMPLETION PIT MANIFOLD PAD
LATITUDE: 39.265408 LONGITUDE: -80.824848 (NAD 83 NORTH)

WEU4 COMPLETION PIT
LATITUDE: 39.265684 LONGITUDE: -80.825818 (NAD 83 NORTH)

WEU4 COMPLETION PIT
LATITUDE: 39.265684 LONGITUDE: -80.825818 (NAD 83 NORTH)

WEU4 COMPLETION PIT
LATITUDE: 39.265684 LONGITUDE: -80.825818 (NAD 83 NORTH)

SITE DISTURBANCE COMPUTATIONS

ACCESS ROAD NO. 1 & NO. 2 = 8.618 ACRES
STOCKPILE SITES 1-8 = 4.284 ACRES
RIG FOOTPRINT = 0.29 ACRES
MANIFOLD PAD & FLOWBACK PIT = 0.314 ACRES
COMPLETION PIT = 3.324 ACRES
TOTAL SITE DISTURBANCE = 19.189 ACRES

ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENTRANCE PERMIT FROM MW-15H 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 #1386178253. 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 54060C0000, DATED MAY 3, 2010.

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 25-26, 2013 BY POTIERS 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 29, 2013 REPORT PROJECT # 010-11-147-15701 WAS PREPARED BY POTIERS AND ASSOCIATES, INC. AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THIS 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 OBTAIN WRITTEN CONFIRMATION OF THE DELINEATION DETERMINED BY THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON 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 WETLAND FILL AND STREAM CROSSINGS.

HORIZONTAL & VERTICAL CONTROL

COORDINATES AND ELEVATIONS USED FOR ALL LAYOUTS AND DESIGNS WERE BASED UPON MARKERS 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

GRID NORTH AND ELEVATIONS SHOWN HEREON WERE EXPANDED TO COUNTY SCALE OF 1" = 2000'



| WELL | NO. | WELL STATUS | SD | LAT | LONG | NORTHING | EASTING |
|------|--------|-------------|--------------|-----------|-----------|------------|------------|
| H1 | 112942 | PROPOSED | 47 095 02274 | 79 566542 | 81 810548 | 3 2290 43 | 0993 33 72 |
| H2 | 112941 | PROPOSED | 47 095 02274 | 79 566504 | 82 820548 | 3185 63 | 0993 33 79 |
| H3 | 102942 | PROPOSED | 47 095 02280 | 79 566548 | 81 820549 | 3 2571 40 | 0994 04 18 |
| H4 | 112943 | PROPOSED | 47 095 02276 | 79 566729 | 82 820549 | 3495 74 | 0993 08 08 |
| H5 | 102940 | PROPOSED | 79 566542 | 80 820549 | 3 2572 41 | 0993 27 27 | |
| H6 | 112944 | PROPOSED | 39 566547 | 80 820549 | 3 2572 41 | 0993 08 08 | |
| H7 | 116534 | PROPOSED | 39 566548 | 80 820649 | 3185 63 | 0994 05 05 | |
| H8 | 116535 | PROPOSED | 39 566548 | 80 820827 | 3185 63 | 045292 16 | |
| H9 | 116536 | PROPOSED | 39 566542 | 80 820549 | 3 2674 18 | 0993 08 08 | |
| H10 | 116537 | PROPOSED | 39 566872 | 80 820787 | 30645 38 | 0993 04 34 | |
| H11 | 116538 | PROPOSED | 39 566548 | 80 820847 | 31849 10 | 0993 08 08 | |
| H12 | 116539 | PROPOSED | 39 566795 | 80 820747 | 3 1625 54 | 0993 02 11 | |
| H13 | 116540 | PROPOSED | 39 566866 | 80 820849 | 3 0512 40 | 0993 08 18 | |
| H14 | 116541 | PROPOSED | 79 566709 | 80 820709 | 2 9427 28 | 0993 02 09 | |
| H15 | 116542 | PROPOSED | 10 566846 | 80 820848 | 3 0447 54 | 0993 02 09 | |

LIST OF DRAWINGS

- 1 - COVER SHEET
- 2 - NOTES
- 3 - OVERALL SHEET INDEX & VOLUMES
- 4 - EXISTING UTILITY PLAN
- 6-7 - 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 - SPILL STORAGE AREA PROFILE & SECTIONS
- 26 - 29 - WEU4 RECLAMATION PLANS
- 30 - 33 - CONSTRUCTION DETAILS

**APPROVED
WVDEP OOG**
8/28/2015

| 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. |

OPERATOR

EQT PRODUCTION COMPANY
OPERATOR ID: 206666
115 PROFESSIONAL PLACE
P.O. BOX 290
BRIDGEPORT, WV 26030
PHONE: (304) 348-3870

ENGINEER

RR&K ENGINEERING
OPERATOR ID: 206666
SUITE 1
1515 W. WALKER
BRIDGEPORT, WV 26030
PHONE: (304) 758-3070

SURVEYOR

SMITH LAND SURVEYING, INC.
16 WALKER DRIVE
P.O. BOX 150
GLENVILLE, WV 26031
PHONE: (304) 482-0434

RUMBLE, KLEPPER & WALKER, LLP
341 NORTH FORNADO WAY, SUITE 1
KEYSER, WEST VIRGINIA 26726
T-304.788.3370 F-304.788.3377
WWW.RK&K.COM

RK&K ENGINEERS
Professional Energy Consultants
A DIVISION OF RUMBLE, KLEPPER & WALKER, LLP
EXPLORATION ENGINEERS
ENVIRONMENTAL PROJECT MANAGERS
WWW.RK&K.COM
GUY WALKER



THIS DOCUMENT WAS PREPARED BY RR&K ENGINEERS FOR: EQT PRODUCTION COMPANY

COVER SHEET
WEU4
MCELROY DISTRICT
CENTERVILLE DISTRICT
TYLER COUNTY, WV

DATE: 04/30/2015
SCALE: 1" = 2000'
DESIGNED BY: RWH
FILE NO.: JOB
SHEET 1 OF 33
REV: 08/25/2015

RIG FOOTPRINT & FLOWBACK PIT NO. 1 LAYOUT

WEU4 PROPOSED WELLS

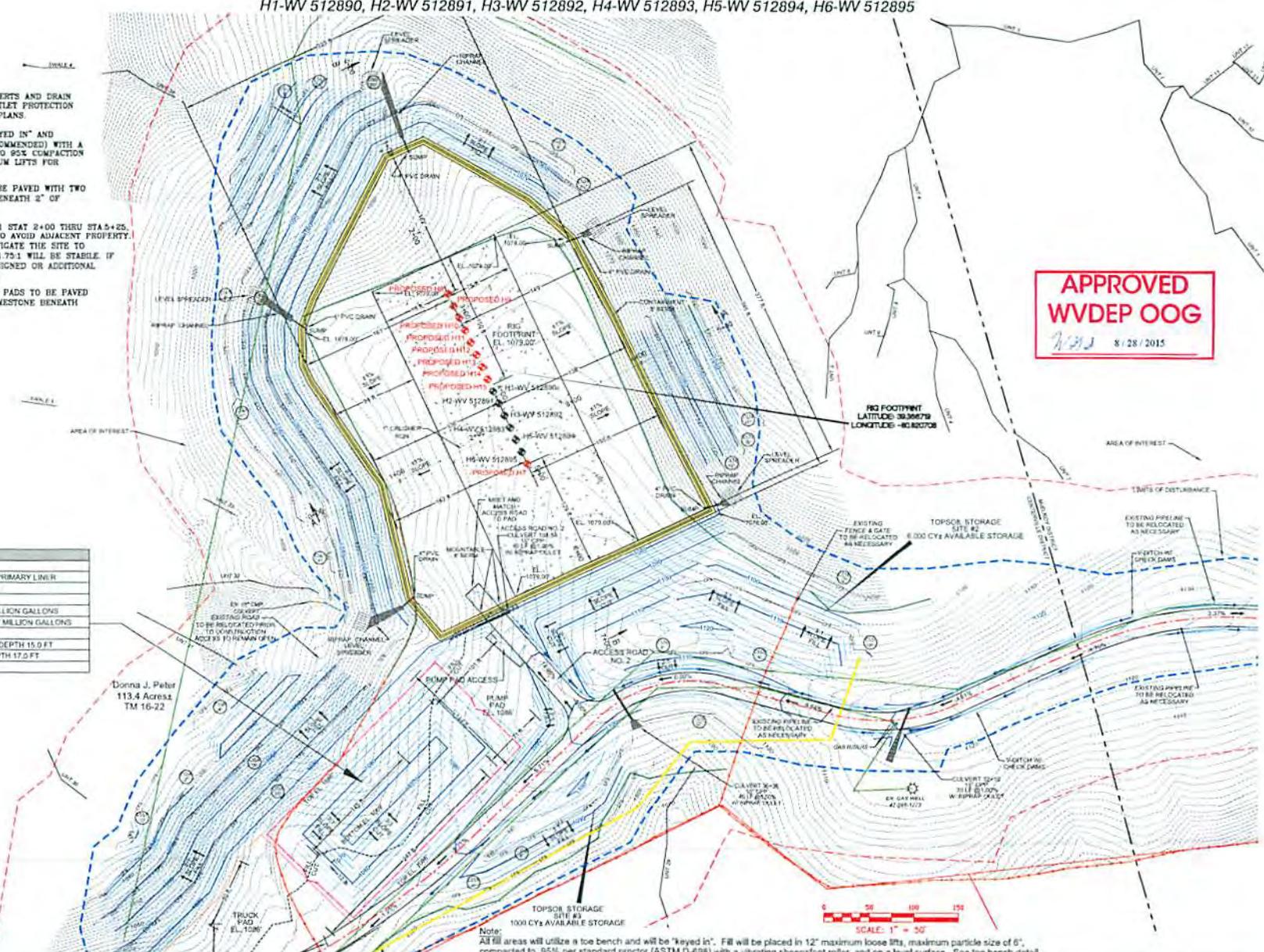
H1-WV 512890, H2-WV 512891, H3-WV 512892, H4-WV 512893, H5-WV 512894, H6-WV 512895

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 PROCTOR. 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.

APPROVED WVDEP OOG
 7/20 8/28/2015

| 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 | = 1096 DEPTH 17.0 FT |



RK&K ENGINEERS
 RUMBLE, KLEPPER & KYLE, LLP
 240 NORTH TORONADO HWY. SUITE 1
 KEYSER, WEST VIRGINIA 26726
 T: 304.383.3370 F: 304.786.3577
 WWW.RK&K.COM

SLS
 Professional Energy Consultants
 1425 WYOMING AVENUE, SUITE 100
 CHARLOTTE, NC 28202
 PH: 704.375.8800
 WWW.SLS-ENERGY.COM

THIS DOCUMENT WAS PREPARED BY BRAD ENGINEERS FOR: FET PRODUCTION COMPANY

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

DATE: 04/29/2015
 SCALE: 1" = 50'
 DESIGNED BY: HWI
 FILE NO.: 208
 SHEET: 8 OF 33
 REV: 08/25/2015

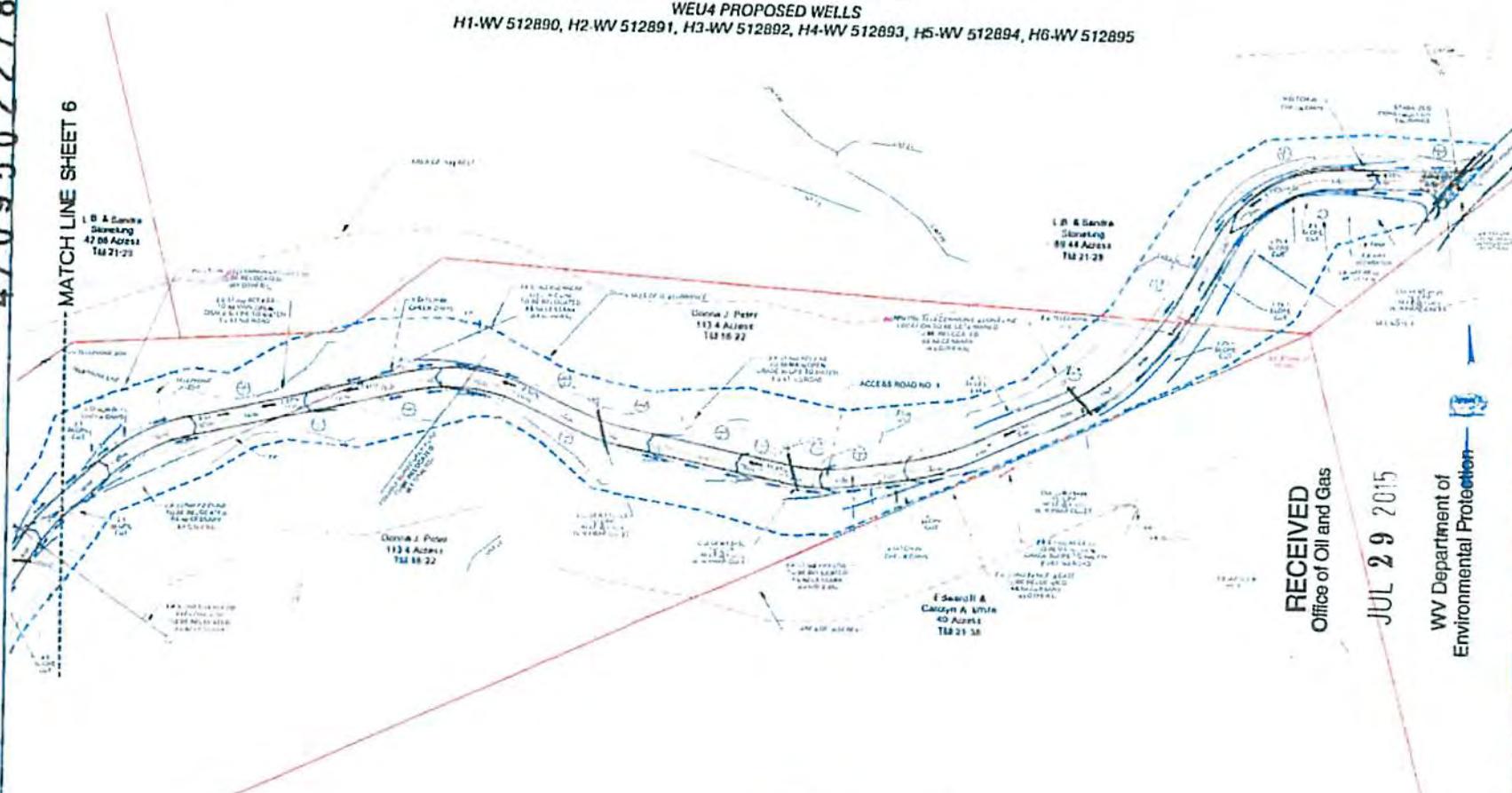
4709502278

MATCH LINE SHEET 6

ACCESS ROAD NO. 1 PLAN

WEU4 PROPOSED WELLS

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



- NOTES**
1. ALL PROPOSED SEWERAGE LINES AND DRAIN PIPES SHALL HAVE ADEQUATE GULLY PROTECTION (IMP. RIP) AS SHOWN ON THESE PLANS.
 2. ALL THE AREAS SHALL BE REEDED IN AND COMPACTED IN 4" LAYS (8 RECOMMENDED) WITH A SUITABLE SUBSTRATE SOILS TO BE CONSIDERED FOR STANDARD PROCTOR MAXIMUM (11.5) FOR ROCK (10) EQUAL OR.
 3. ACCESS ROAD SURFACES TO BE PAVED WITH 160 4" LAYS OF #3 OR EQUIVALENT GRADES OF CRUSHED SILTSTONE (100% 100%).
 4. IN AREA ON ACCESS ROAD NO. 1 STAR #100 (PKU #745-25), ROADWAY IS BIEFER (100% #3) TO AVOID ADJACENT PROPERTY A CIRCULAR DRAIN (100% BANKING) THE TIE IS DELETED IF THERE AS SHOWN #753 WILL BE STABLE IN NOT ROAD WILL REQUIRE BE DESIGNED OR ADDITIONAL DIMENSIONATION AS PROGS LISTED.

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Office of Oil and Gas
JUL 29 2015

WV Department of
Environmental Protection

PLEASE REFER TO ALL APPLICABLE REGULATIONS AND RULES FOR THE PROTECTION OF THE ENVIRONMENT AND PUBLIC HEALTH AND SAFETY.

RKX ENGINEERS

Professional Energy Consultants

SLS

Professional Energy Consultants

ACCESS ROAD NO. 1 PLAN
WEU4
MADE NOT DISTRICT
CENTERVILLE DISTRICT
TYLER COUNTY, WV

406
7/30/15

4709502278

ACCESS ROAD NO. 1 PLAN

WEU4 PROPOSED WELLS

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

RECEIVED
Office of Oil and Gas

JUL 29 2015

WV Department of
Environmental Protection

MATCH LINE SHEET 5

RAMEL, LITTELL & ASSOCIATES, L.P.
240 NORTH TOWN SQUARE, SUITE 100
ROCKY MOUNT, WEST VIRGINIA 26151
TEL: 336.287.5771 F: 336.287.5770
WWW.RLAE.COM

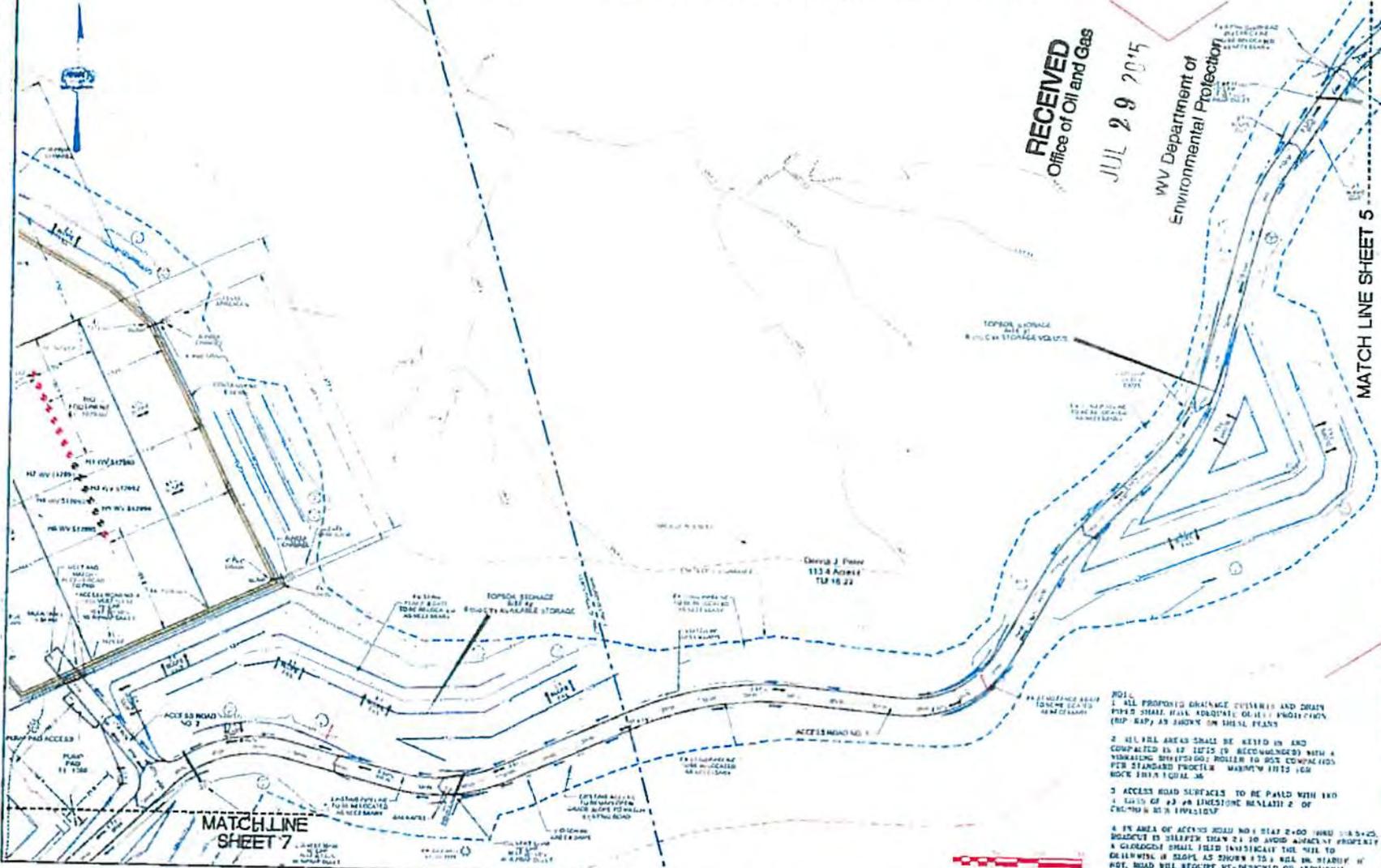
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ENGINEERS

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SOLUTIONS
SERVICES
SUPPORT

THE ONLY ONE YOU
NEED TO CALL
FOR ALL ENERGY
CONSTRUCTION
PROJECTS

ACCESS ROAD NO. 1 PLAN
WEU4
MERCURY DISTRICT
CENTRALE DISTRICT
TYLER COUNTY WV

DATE: 06/24/15
SCALE: AS SHOWN
JOB NO: 1504
SHEET: 4 OF 26
REV: 06/24/15



1. ALL PROPOSED DRAINAGE DITCHES AND DRAIN PIPES SHALL HAVE ADEQUATE GRADIENT PROTECTION (BSP-RAP) AS SHOWN ON THESE PLANS.
2. ALL FILL AREAS SHALL BE KEPT IN AND COMPACTED IN 12" LIFTS (IS RECOMMENDED) WITH A VIBRATING STEEL DRUM ROLLER TO 95% COMPACTION PER STANDARD PROCTOR. MAXIMUM LIFT IS 18" ROCK FILL IS 18" MAX.
3. ACCESS ROAD SURFACES TO BE PAVED WITH 180 TONS OF #3 1/2 LIMESTONE BLEND #2 OF PROVED MIX PROVISION.
4. IN AREA OF ACCESS ROAD NO. 1 DIAL 2+00 THROUGH 2+20, SLOPES IS SHIFTER THAN 2:1 TO AVOID ADJACENT PROPERTY & CLOSURES SHALL BE INDICATED THE MAIL TO DETERMINE IS SLOPE AS SHOWN & TO A MIN. STABILITY OF ROAD. ROAD WILL REQUIRE EX-TRINCHING OR ADDITIONAL STABILIZATION MEASURES UTILIZED.

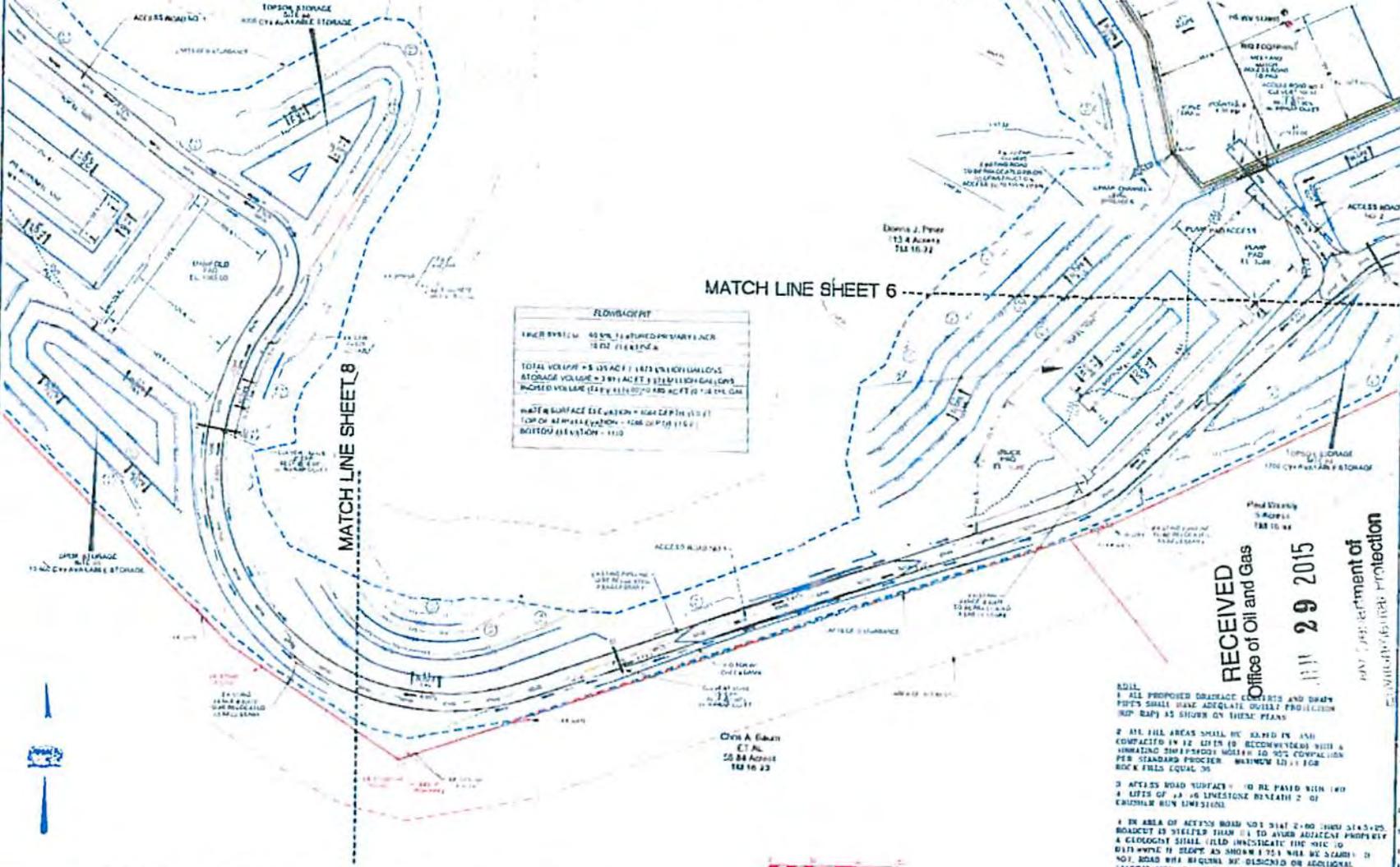


4709502278

ACCESS ROAD NO. 1 CONCEPTUAL LAYOUT

WEU4 PROPOSED WELLS

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



| FLOWAGE | |
|------------------------|------------------------------------|
| WELL SYSTEM | 4050 GPD PER WELL |
| TOTAL VOLUME | 4050 GPD x 10 WELLS = 40,500 GPD |
| STORAGE VOLUME | 40,500 GPD x 10 MIN = 405,000 GALS |
| WELL SURFACE ELEVATION | 1000.00 FT |
| TOP OF ACCESS ROAD | 1000.00 FT |
| BOTTOM ELEVATION | 1000.00 FT |

MATCH LINE SHEET 6

MATCH LINE SHEET 8

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Office of Oil and Gas
NOV 29 2015
Department of
Wildlife and
Natural Resources

- ALL PROPOSED DRAINAGE SYSTEMS AND DRAIN PIPES SHALL HAVE ADEQUATE OVERLAP PROTECTION (SEE DRAWING) AS SHOWN ON THESE PLANS.
- ALL FILL AREAS SHALL BE GRADED IN 1% AND COMPACTED IN 12 LIFT (8 RECOMMENDED) WITH A FINISHING 200 PSI PRODDI MIXTURE TO 10% COMPACTION PER STANDARD PRACTICE. BETWEEN 12" TO 18" ROCK FILL EQUAL 35.
- ACCESS ROAD SURFACE - TO BE PAVED WITH 10" LIFTS OF # 56 Limestone Beneath 2" OF CRUSHED RUN LIMESTONE.
- IN AREA OF ACCESS ROAD NOT SHOWN THESE DRAINAGE ROADS IS STEEPER THAN 1:1 TO ADJACENT PROPERTY A SLOUGHT SHALL BE INVESTIGATED THE 10% TO 15% SLOPE AS SHOWN IN 75% SHALL BE 2:1 AND 1:1 NOT ROAD WITH EQUAL BE DISCUSSED ON ADDITIONAL STABILIZATION METHODS LIMITED.



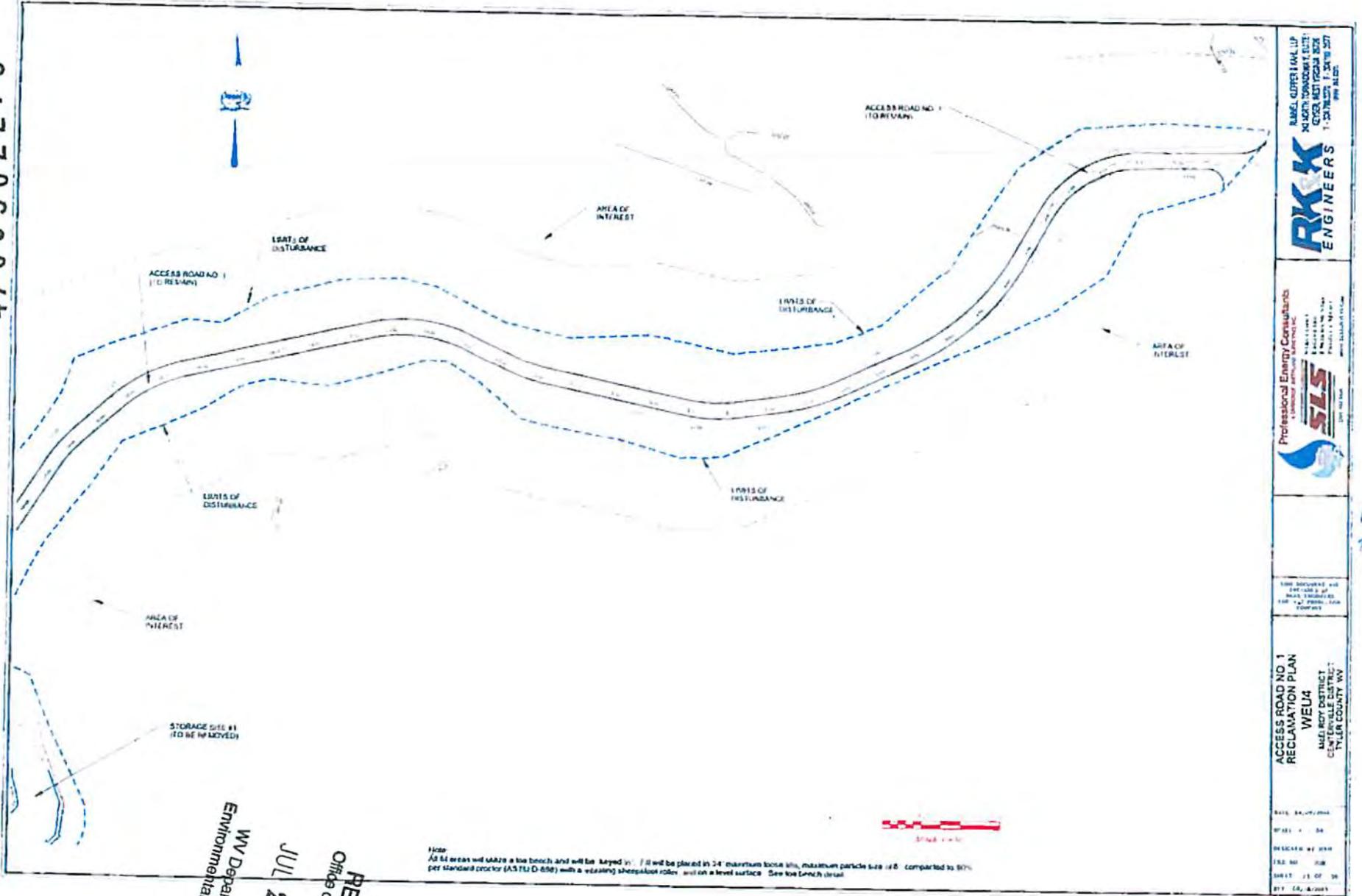
RK ENGINEERS
K. ALLEN, P.E.
REGISTERED PROFESSIONAL ENGINEER
STATE OF TEXAS
NO. 12345
12345

SLS
Professional Energy Consultants
S. L. SMITH, P.E.
REGISTERED PROFESSIONAL ENGINEER
STATE OF TEXAS
NO. 12345
12345

ACCESS ROAD NO. 1 PLAN
WEU4
MAGNOLIA DISTRICT
TYLER COUNTY, TX

HAC 11/29/15

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 Environmental Protection

Professional Energy Consultants
SLS
 A Subsidiary of
 SHERIDAN ENERGY SERVICES
 1000 SHERIDAN BLVD
 SUITE 1000
 CHARLOTTE, NC 28203
 PHONE: 704.366.1000
 FAX: 704.366.1001
 WWW.SLS-ENERGY.COM

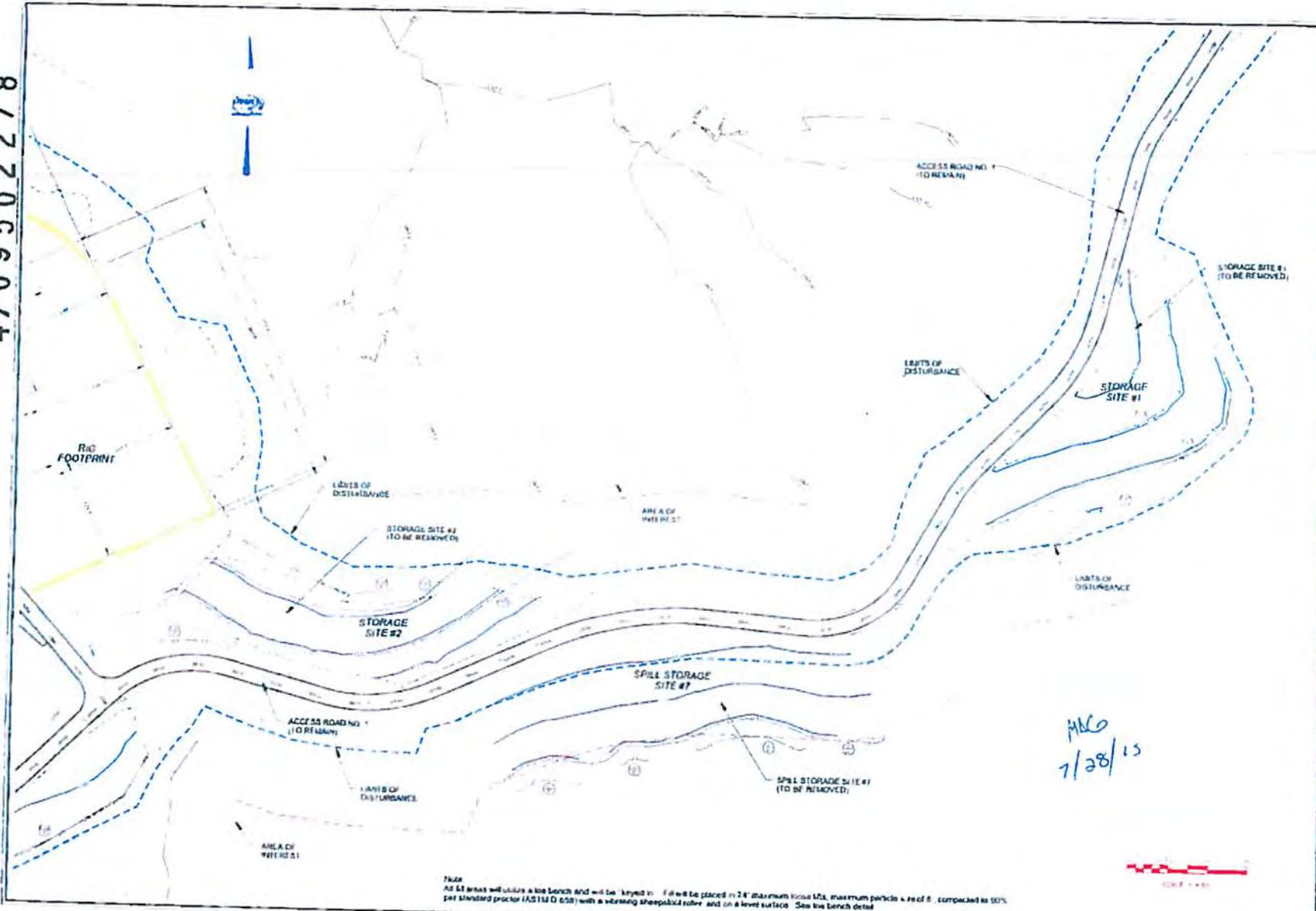
RK&K ENGINEERS
 RAMEL GRIFFIN P.E., L.P.
 40 NORTH TOWNHOMES BLVD.
 CENTER HILL VILLAGE BLDG
 1 - CHARLOTTE, NC 28203
 704.366.1000

ACCESS ROAD NO 1
 RECLAMATION PLAN
 WEU4
 MAGDOY DISTRICT
 CENTERVILLE DISTRICT
 TYLER COUNTY WV

DATE: 04/27/2014
 SHEET: 1 OF 16
 DRAWN BY: JWB
 CHECKED BY: JWB
 DATE: 04/27/2014

MBC
 7/29/14

4709502278



7626
 All 5/8 inch well caps will utilize a low bench and will be keyed in. If it will be placed in 2" maximum loose fill, maximum particle size of 8, compacted to 90% per standard proctor (ASTM D 658) with a vibrating sheepfoot roller and on a level surface. See low bench detail.

MKG
 7/28/15

ARKK
 ENGINEERS

LAMAR LEPER & ASSOCIATES
 10 NORTH TOWNSEND WAY SUITE 1
 CENTER HILL VIRGINIA 22827
 540.782.2277 / 540.782.2277
 WWW.ARKKENGINEERS.COM

Professional Energy Consultants
 SLS
 A subsidiary of Professional Energy Consultants, Inc.
 1000 N. 10th St.
 Suite 100
 Raleigh, NC 27601
 Phone: 919.876.1100
 Fax: 919.876.1101
 www.slsinc.com

THIS DOCUMENT HAS
 BEEN FILED IN
 THE OFFICE OF THE
 STATE ENGINEER
 1000 N. 10th St.
 Raleigh, NC 27601

STORAGE SITES #1 & #2
 RECLAMATION PLAN
 WE U4
 MURKIN DISTRICT
 CENTREVILLE DISTRICT
 TYLER COUNTY WV

DATE: 06/29/2015
 SCALE: 1" = 50'
 DRAWN BY: MKG
 PLS SEE: P08
 SHEET: 24 OF 25
 DATE: 06/28/2015

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