



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, October 18, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

CNX GAS COMPANY LLC
1000 CONSOL ENERGY DR
CANONSBURG, PA 15370

Re: Permit approval for SHR38QHSM
47-095-02652-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

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

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

A handwritten signature in blue ink, appearing to read "James A. Martin".

James A. Martin
Chief

Operator's Well Number: SHR38QHSM
Farm Name: JAMES E. ASH ET AL
U.S. WELL NUMBER: 47-095-02652-00-00
Horizontal 6A New Drill
Date Issued: 10/18/2019

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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. 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.
10. 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.

API Number: _____

PERMIT CONDITIONS

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



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CNX Gas Company, LLC
1000 Consol Energy Drive
Canonsburg, PA 15370

Pursuant to West Virginia Code §22-6A-8(g)(2), the Office of Oil and Gas hereby grants approval of the September 10, 2019 request by CNX Gas Company, LLC to land apply certain drill cuttings on its SHR38 well pad in Tyler County. This approval is limited to the land application of drill cuttings associated with the drilling of the conductor section of the wellbores for wells with the following API numbers: 47-095-02514, 47-095-02569, 47-095-02570, 47-095-02571, 47-095-02572, 47-095-02648, 47-095-02649, 47-095-02650, 47-095-02651, 47-095-02652, and 47-095-02653.

Drill cuttings covered under this approval must be free of any additives, lubricants, etc. and be composed of only the earthen material removed from the wellbore down to the point at which the conductor casing is installed. No material removed from the wellbore below the base of the conductor casing may be land applied.

This approval is being provided in conjunction with the assertion by CNX Gas Company, LLC, that consent from all owners of the surface of the tract where the SHR38 well pad is located has been obtained and is only valid upon the condition that consent has been obtained.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a horizontal line.

James A. Martin, Chief
Office of Oil and Gas
West Virginia Department of Environmental Protection

Date

October 1, 2019

Archived: Tuesday, October 1, 2019 2:00:41 PM

From: Whetstone, Erika

Sent: Tue, 1 Oct 2019 12:40:15 +0000ARC

To: Brewer, Charles T; Stansberry, Wade A

Subject: [External] SHR38 Revised WW9 forms

Importance: Normal

Attachments:

4709502514.pdf 709502569.pdf 709502570.pdf 709502571.pdf 709502572.pdf 709502648.pdf 709502649.pdf 709502650.pdf
4709502651.pdf 709502652.pdf 709502653.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and are expecting the content. -- WV Office of Technology

Good morning,

CNX Gas Company LLC would like to request a modification for wells with APIs 47-095-02514, 47-095-02569, 47-095-02570, 47-095-02571, and 47-095-02572. The purpose for this request is to allow CNX to land apply the soil conductor cuttings on site per DEP approval. Updated WW9 forms are attached to this email.

Similarly, CNX would also like to request a revision to current applications under review for APIs 47-095-02648, 47-095-02649, 47-095-02650, 47-095-02651, 47-095-02652, and 47-095-02653. Updated WW9 forms are attached with a revision to the drill cuttings disposal method.

Please let me know if you have any questions or need anything further.

Thank you,
Erika

Erika Whetstone
CNX | Permitting Manager - Infrastructure
CNX Center | 1000 CONSOL Energy Drive | Canonsburg, PA 15317
(724) 485-4035 –w | (724) 317-2224 –m

"This communication, including any attachments, may contain confidential and privileged information that is subject to the CNX Resources Corporation Business Information Protection Policy. The information is intended solely for the use of the intended recipient(s). If you are not an intended recipient, you are prohibited from any use, distribution, or copying of this communication. If you have received this communication in error, please immediately notify the sender and then delete this communication in its entirety from your system."

4709502652

WW-6B
(04/15)

API NO. 47-095
OPERATOR WELL NO. SHR38QHSM
Well Pad Name: SHR38

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

1) Well Operator: CNX Gas Company, LLC 494458046 Tyler Centerville West Union
Operator ID County District Quadrangle

2) Operator's Well Number: SHR38QHSM Well Pad Name: SHR38

3) Farm Name/Surface Owner: Ash Public Road Access: Duckworth Ridge Road 58/2

4) Elevation, current ground: 1026' Elevation, proposed post-construction: 1012'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

JCB
8/23/2019

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 6447'-6492' TVD, 45' thick, expected formation pressure ~4000 psi

8) Proposed Total Vertical Depth: 6480'

9) Formation at Total Vertical Depth: Marcellus Shale (will not penetrate Onondaga)

10) Proposed Total Measured Depth: 13,181'

11) Proposed Horizontal Leg Length: 6163'

12) Approximate Fresh Water Strata Depths: 85', 180', 225'

13) Method to Determine Fresh Water Depths: Offset water well information collected during predrill sampling

14) Approximate Saltwater Depths: 1932'

15) Approximate Coal Seam Depths: No known mineable coal seams; 430'-432', 480'-482'

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

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

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

Depth: _____

Seam: _____

Owner: _____

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WW-6B
(04/15)

API NO. 47- 095 -
OPERATOR WELL NO. SHR38QHSM
Well Pad Name: SHR38

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft./CTS) |
|--------------|------------------|--------------------|--------------|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Conductor | 20 | New | L/S | 94.0 | 80 | 80 | 77 / CTS |
| Fresh Water | 13.375 | New | J-55 | 54.5 | 600 | 600 | 417 / CTS |
| Coal | 13.375 | New | J-55 | 54.5 | 600 | 600 | 417 / CTS |
| Intermediate | 9.625 | New | J-55 | 36.0 | 2600 | 2600 | 844 / CTS |
| Production | 5.5 | New | P-110 | 20.0 | 13181 | 13181 | 2424 / TOC @ 2100' |
| Tubing | 2.375 | New | J-55 | 4.7 | | TBD | N/A |
| Liners | N/A | | | | | | |

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| 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 | N/A | N/A | Type 1 | 1.18 |
| Fresh Water | 13.375 | 17.5 | 0.380 | 2730 | <500 | Class A | 1.19 |
| Coal | 13.375 | 17.5 | 0.380 | 2730 | <500 | Class A | 1.19 |
| Intermediate | 9.625 | 12.25 | 0.352 | 3520 | <2815 | Class A | 1.19 |
| Production | 5.5 | 8.75 x 8.5 | 0.361 | 13590 | ~10000 during frac | Class A or H | 1.10 |
| Tubing | 2.375 | N/A | 0.190 | 7700 | N/A | N/A | N/A |
| Liners | N/A | | | | | | |

PACKERS

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

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WW-6B
(10/14)

API NO. 47-095

OPERATOR WELL NO. SHR38QHSM

Well Pad Name: SHR38

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

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water/coal casing. Note that the fresh water/coal casing will be set through the named but un-mineable coals in order to isolate sloughing formations and red beds/red shale between the Washington and Waynesburg coals. Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-12.8 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

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

Run CBL to ~60 degrees in the curve and back to surface to determine production casing TOC. Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is ~10,000 psi and max anticipated treating pump rate is 80-90 bpm. Number of stages and stage spacing to be finalized after drilling. After last stimulation stage, drill out frac plugs and clean-out well to PBTD. Flow back and clean-up well. Tie well into production. Run tubing when required.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.57

22) Area to be disturbed for well pad only, less access road (acres): 6.97

23) Describe centralizer placement for each casing string:

Fresh water string: centralize shoe joint and every other joint to surface - utilize bow spring centralizers.
Intermediate string: centralize shoe joint and every 3rd joint to surface - utilize bow spring centralizers.
Production string: centralize every joint from shoe to TOC - utilize single piece/rigid bow centralizers.
Actual centralizer placement may be changed based on hole conditions.

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

Fresh water string: Class A cement with 1%-3% CaCl₂ and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl₂ and 1/4 pps cello-flake/LCM. Production string: Class A or H cement or Class H: Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to TOOH to run casing (may require mist and/or soap to clean the hole). For the production hole - once at TD, circulate at max flowrate with max rotation until the shakers clean-up (typically requires multiple bottoms-up). For the production casing - once on bottom with casing, circulate a minimum of one hole volume to pumping cement.

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*Note: Attach additional sheets as needed.

Cement Additives

- Conductor – 2% CaCl₂
- Freshwater/Coal – 2% CaCl₂
- Intermediate – 2% CaCl₂
- Production –
 - 2.6% Cement Extender
 - 0.7% Fluid Loss Additive
 - 0.5% High Temperature Retarder
 - 0.2% Friction Reducer

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DRILLING WELL PLAN
SHR-38Q-HSM (Marcellus HZ)
Marcellus Shale Horizontal
Tyler County, WV

| | | | SHR-38Q-HSM SHL | | | | N 320239.03, E 1622467.65 (NAD27) | | | |
|------------------|-------------------|--------------------------|------------------------|------|------|---------------|---|--|---|--|
| Ground Elevation | 1012 GL Elevation | | SHR-38Q-HSM LP | | | | N 320737.2, E 1623187.85 (NAD27) | | | |
| Azimuth | 341° | | SHR-38Q-HSM BHL | | | | N 326564.53, E 1621181.34 (NAD27) | | | |
| WELLBORE DIAGRAM | HOLE | CASING | GEOLOGY | MD | TVD | MUD | CEMENT | CENTRALIZERS | CONDITIONING | COMMENTS |
| | 24" | 20" L/S | Conductor | 80 | 80 | AIR | To Surface | N/A | N/A | Stabilize surface fill/soil |
| | 17-1/2" | 13-3/8" 54.5# J-55 BTC | Shallowest Fresh Water | | 85 | AIR / FW Mist | 15.6 ppg Class A + 1% to 3% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface | Centralize every other joint from shoe to surface Bow spring centralizers | Ensure the hole is clean at section TD | Set through fresh water zones Set through coal zones Cemented to surface No known mineable coal seams |
| | | | Deepest Fresh Water | | 225 | | | | | |
| | | | Washington Coal | | 430 | | | | | |
| | | | Red Beds | | 432 | | | | | |
| | | | Waynesburg Coal | | 580 | | | | | |
| | | | FW / Coal Casing | 600 | 500 | | | | | |
| | 12-1/4" | 9-5/8" 36.0# J-55 LTC | Big Lime | | 1867 | AIR / Soap | 15.6 ppg Class A + 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface | Centralize every 3rd joint from shoe to surface Bow spring centralizers | Soap the hole as needed and ensure the hole is clean at section TD | Set through potential salt water zones Cemented to surface Casing to be set below the Big Injun and Berea and into Devonian Shale |
| | | | Big Injun | | 1932 | | | | | |
| | | | Price | | 2072 | | | | | |
| | | | Weir | | 2232 | | | | | |
| | | | Berea | | 2422 | | | | | |
| | | | Intermediate Casing | 2600 | 2600 | | | | | |
| | 8-3/4" Tangent | 5-1/2" 20.0# P-110CY BPN | Gordon | | 2642 | AIR | 15.0 ppg Class A or H with additives (retarder, suspension agent, gas block, defoamer, fluid loss, extender, etc.) 10% OH Excess Yield = 1.10 TOC @ >= 500' above 9-5/8" shoe | Centralize every joint from shoe to TOC Single-piece/rigid bow centralizers | Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up) Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement | Note: Actual centralizer placement may be changed due to hole conditions Note: Actual cement blends may vary slightly depending upon service company utilized |
| | | | Warren | | 3337 | | | | | |
| | | | Benson | | 4917 | | | | | |
| | | | Alexander | | 5162 | | | | | |
| | | | Cashaque | | 6162 | | | | | |
| | | | Middlesex | | 6267 | | | | | |
| | | | West River | | 6307 | | | | | |
| Burkett | | | | 6377 | | | | | | |
| Tully | | | | 6407 | | | | | | |
| Hamilton | | | | 6428 | | | | | | |
| Marcellus | | 6447 | | | | | | | | |
| | | Production Casing | 13181 | 6480 | | | | | | |

LP @ +/- 6480' TVD 8-3/4" x 8-1/2" Hole - Cemented Long String +/- 6163' Lateral TD @ +/- 6480' TVD
 5-1/2" 20.0# P-110CY BPN (API Modified BTC)

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4709502052
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ZONE A

18

Camp

Mistake

Run

Middle Island Creek

18

18

56

**TYLER COUNTY
INCORPORATED AREAS
540277**



SHR38 Pad Frac - SOG Review

In accordance with WVDEP 35CSR8 Section 5.11, all known shallow oil and gas (SOG) wells have been identified within a 500' radius of the SHR38 pad. Any SOG well that falls within the Area of Review (AOR) has been reviewed and is provided in a list that includes API, Operator, Well Name, Well Number, Current Status, Total Depth, and Producing Formation at Total Depth. See following pages, including (Figures 3 and 4).

The Marcellus Shale of the Shirley area is found at an approximate True Vertical Depth (TVD) of 6500'. In the Shirley area, there are very few producing formations between the Big Injun and the Benson Sand. Most wells are either approximately 2000' or 5000' deep. Although there are a significant number of SOG Communication events in the Shirley area, it is highly unlikely that communication will occur with any wells producing from formations shallower than the Benson Sand, found at an approximate TVD of 5000'. This is based on previous experience and study of SOG Communication with Marcellus fracs throughout Ritchie and Doddridge counties.

The current hypothesis for SOG Communication is that Marcellus frac fluids and pressure intersect and migrate up a nearby fault that acts as a conduit for upward migration and intersection with high permeability reservoirs of the Alexander and Benson. Both of these reservoirs are primarily depleted, allowing an easier pressure migration throughout these formations. Geomechanical data is collected from dipole sonic logs. CNX's nearest sonic data is from the SHR1C well (Figure 1), immediately north of the SHR38 pad. Frac modeling (Figure 2) of the Marcellus in the area does not show significant upward frac growth. In fact, typical frac height would need to be more than double to reach the Alexander, approximately 1000' above the Marcellus Shale.

SHR38 Pad Frac SOG Review / CRSD Review Thursday, November 8, 2018
Figure 1. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the SHR1C Stress Profile log.

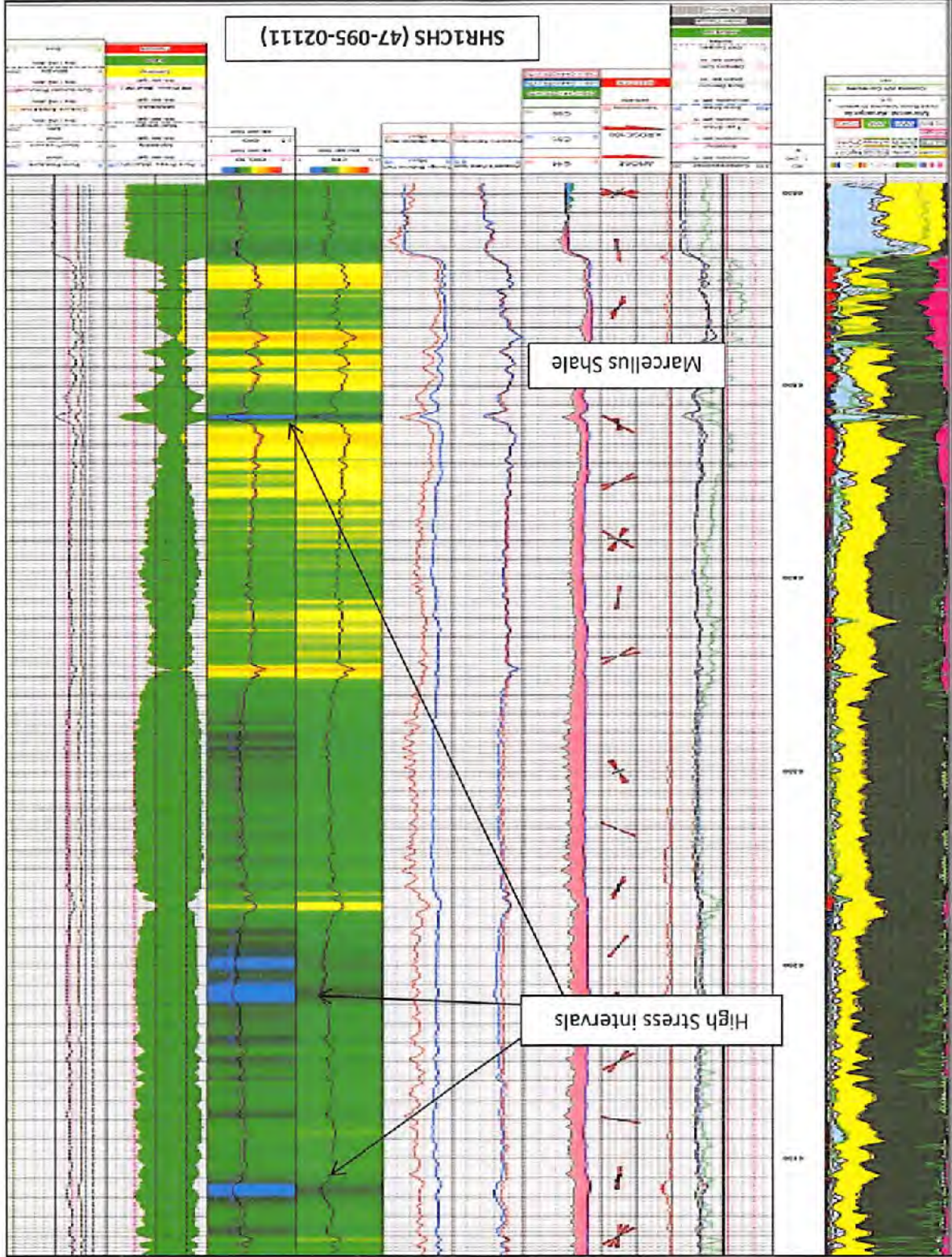


Figure 2. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Marcellus and adjacent shallower shales are lithologically similar to Pennsboro. Frac modeling only yields frac height of approximately 300' and falls far short of the 1000' required to communicate with the Alexander or Benson formations. Therefore, faulting is the primary suspect for upward frac migration.

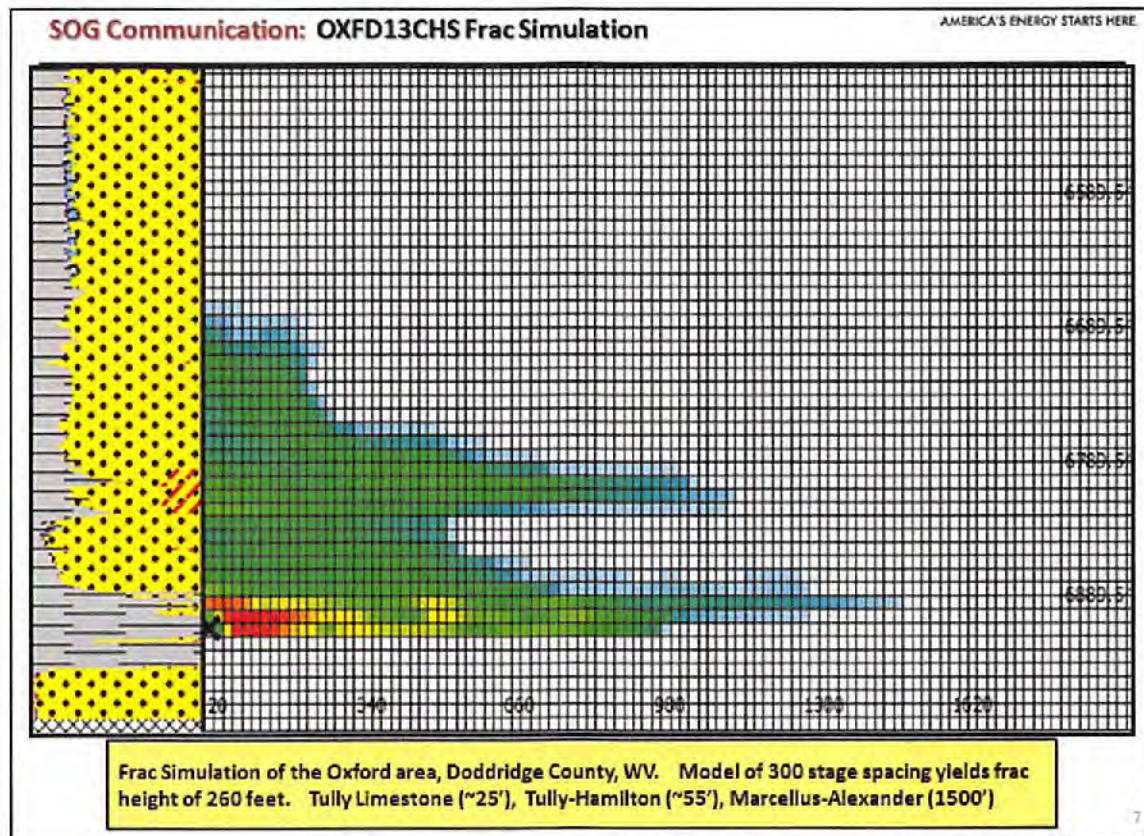


Figure 3. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below.

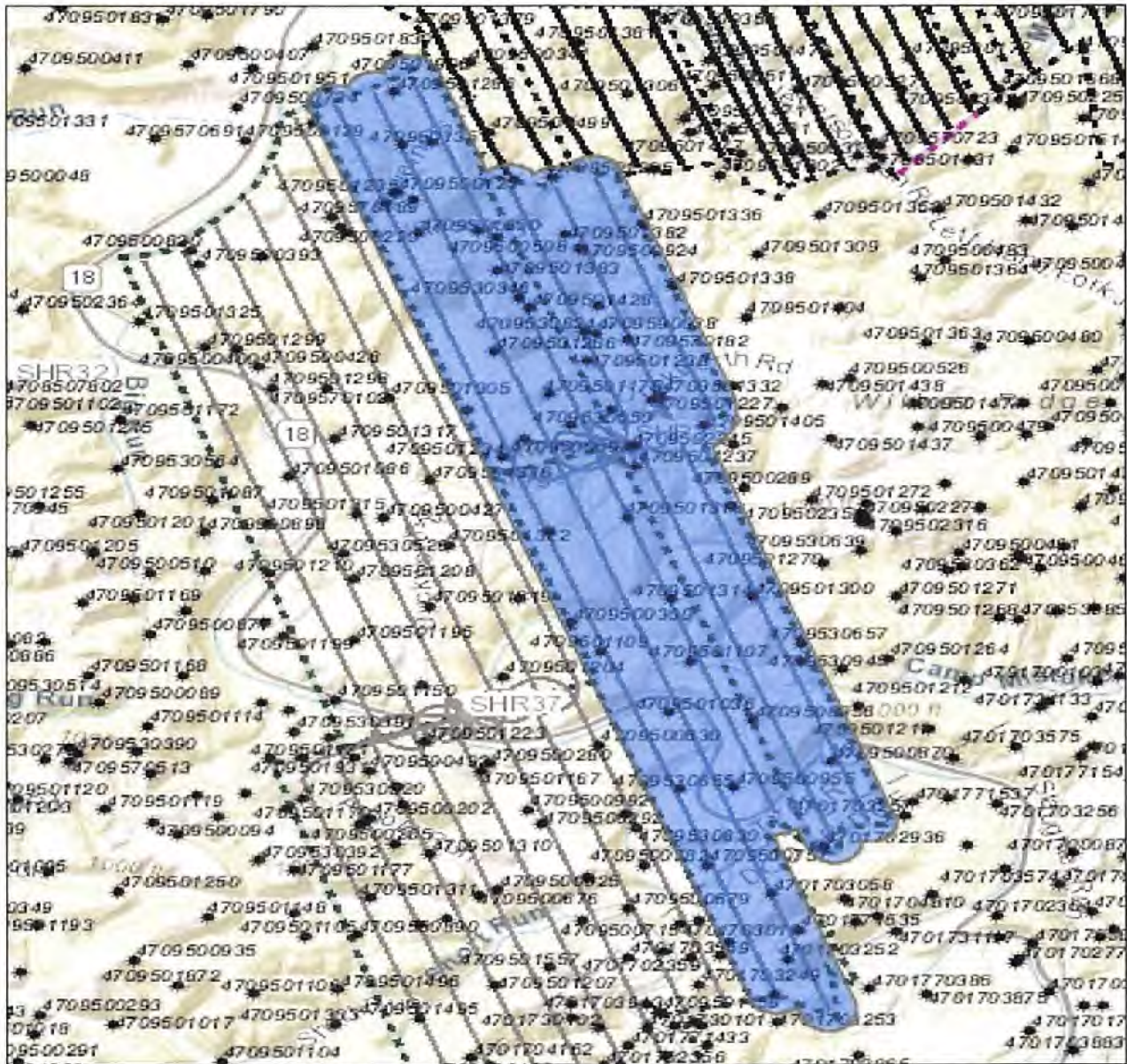




Figure 4. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below.

| API | STATE | COUNTY | LATITUDE | LONGITUDE | OPERATOR | STATUS | WELL NAME | WELL_NO | TD | FMTD | ELEVATION |
|------------|-------|-----------|-------------|--------------|-------------------------------|-----------------|-----------------------------|---------|-------------|--------------------|-----------|
| 4701702351 | WV | Doddridge | 39.33791934 | -80.82944913 | Ritchie Petroleum Corp | Oil and Gas | LG Hammer 2 | | 2396 | Weir | 950 |
| 4701702452 | WV | Doddridge | 39.34440133 | -80.82341529 | Unknown | not available | Paul Strickling | | Dodd 2936 | Dodd 2936 | 830 |
| 4701702936 | WV | Doddridge | 39.34430633 | -80.82337929 | Greylock Conventional LLC | Gas | P Strickling 1 | | 4900 | Benson | 845 |
| 4701703058 | WV | Doddridge | 39.34116734 | -80.8266802 | Greylock Conventional LLC | Gas | Middle Island | | 5117 | Alexander | 1039 |
| 4701703252 | WV | Doddridge | 39.33671524 | -80.82563221 | Greylock Conventional LLC | Gas | W & V McCutcheon | | 5500 | Alexander | 1092 |
| 4701703586 | WV | Doddridge | 39.37483806 | -80.83367761 | Consol Gas | Not Drilled | Never Drilled (Canceled) | | not drilled | not drilled | 960 |
| 4701771437 | WV | Doddridge | 39.33436122 | -80.82657418 | | not available | McCutchan-Haines | | | | 1135 |
| 4701771535 | WV | Doddridge | 39.33871526 | -80.82489324 | | not available | N A Joseph | | | | 977 |
| 4709500097 | WV | Tyler | 39.37191314 | -80.84222593 | Unknown | Gas | John Ash | 1 | 2005 | Big Injun (undiff) | 941 |
| 4709500103 | WV | Tyler | 39.38803655 | -80.84941881 | Lemon, Robert and Betty | Oil and Gas | D D Davis | 1 | 1925 | Big Injun (undiff) | 946 |
| 4709500113 | WV | Tyler | 39.38782057 | -80.85102277 | Unknown | Oil and Gas | D D Davis | 2 | 1885 | Big Injun (undiff) | 830 |
| 4709500120 | WV | Tyler | 39.38544545 | -80.84250196 | Unknown | Dry w/ Gas Show | W C Pierson / Josephs Mills | 1 | 1952 | Squaw | 873 |
| 4709500123 | WV | Tyler | 39.38858257 | -80.85033279 | J A & M Oil and Gas | Oil w/ Gas Show | D D Davis | 3 | 1883 | Big Injun (undiff) | 803 |
| 4709500208 | WV | Tyler | 39.39188259 | -80.84805585 | Unknown | Dry w/ O&G Show | Frank H Ash | 1 | 2109 | Price Frm & equls | 927 |
| 4709500300 | WV | Tyler | 39.3851588 | -80.83941496 | Prfor, Ferrell | Gas | Alexander Doak Heirs | 1 | 1836 | Big Injun (undiff) | 785 |
| 4709500508 | WV | Tyler | 39.3854884 | -80.84398493 | Equitrans | Gas | W N Moore | | 1900 | Big Injun (undiff) | 867 |
| 4709500757 | WV | Tyler | 39.34307445 | -80.83071912 | Allied Energy | Oil and Gas | Delmer Mulvay | 1 | 2209 | Berea Ss | 760 |
| 4709500870 | WV | Tyler | 39.35004941 | -80.82286032 | Greylock Conventional LLC | Gas | Izetta B Gamer | 6 | 4901 | Benson | 790 |
| 4709500876 | WV | Tyler | 39.36557401 | -80.84080595 | Triad Hunter | Gas | Jacob L Dillon | 1 | 2387 | Berea Ss | 975 |
| 4709500924 | WV | Tyler | 39.38475329 | -80.83859304 | Greylock Conventional LLC | Gas | W Paul McCutchen | | 5122 | Alexander | 735 |
| 4709500955 | WV | Tyler | 39.3483235 | -80.82911817 | Greylock Conventional LLC | Gas | Jay & Mary Collins | | 5279 | Alexander | 893 |
| 4709500956 | WV | Tyler | 39.35286655 | -80.82783921 | Greylock Conventional LLC | Gas | Jay & Mary Collins | | 5430 | Alexander | 1028 |
| 4709501036 | WV | Tyler | 39.35339266 | -80.83313209 | Greylock Conventional LLC | Gas | Edwin D Mulvay et ux | | 5177 | Benson | 763 |
| 4709501101 | WV | Tyler | 39.37483806 | -80.83367761 | EQT | Not Drilled | Never Drilled (Canceled) | | not drilled | not drilled | 960 |
| 4709501107 | WV | Tyler | 39.3568727 | -80.83182713 | Alliance Petroleum | Gas | Karen Jane Osborne | 3 | 5306 | Alexander | 763 |
| 4709501108 | WV | Tyler | 39.35687256 | -80.82472829 | Alliance Petroleum | Gas | Karen Jane Osborne | 1 | 5240 | Alexander | 978 |
| 4709501109 | WV | Tyler | 39.35759781 | -80.837443 | Alliance Petroleum | Gas | Karen Jean Osborne | 2 | 5325 | Alexander | 943 |
| 4709501178 | WV | Tyler | 39.37483806 | -80.83367761 | Unknown | Not Drilled | Never Drilled (Canceled) | | not drilled | not drilled | 960 |
| 4709501206 | WV | Tyler | 39.37483806 | -80.83367761 | Anvil | Not Drilled | Never Drilled (Canceled) | | not drilled | not drilled | 960 |
| 4709501226 | WV | Tyler | 39.3728251 | -80.830312 | Alliance Petroleum | Dry | Verna O Ash | 1 | 5140 | Benson | 1013 |
| 4709501227 | WV | Tyler | 39.37455504 | -80.83426712 | Alliance Petroleum | Gas w/ Oil Show | Verna O Ash | 2 | 5142 | Benson | 966 |
| 4709501234 | WV | Tyler | 39.37064915 | -80.8436089 | Alliance Petroleum | Gas | James E Ash | 1 | 5096 | Benson | 909 |
| 4709501235 | WV | Tyler | 39.38838857 | -80.85052578 | Anja Resources | Gas | Geneva Fouts Bullman | 1 | 4890 | Benson | 812 |
| 4709501237 | WV | Tyler | 39.37005898 | -80.83520209 | Alliance Petroleum | Gas | Verna O Ash | 3 | 5157 | Benson | 1029 |
| 4709501238 | WV | Tyler | 39.37722216 | -80.83837803 | Alliance Petroleum | Gas | Edna Dillon | 1 | 5129 | Benson | 957 |
| 4709501254 | WV | Tyler | 39.36731382 | -80.82921722 | Alliance Petroleum | Gas | Charles Lee Cumberledge | 1 | 5150 | Benson | 1018 |
| 4709501276 | WV | Tyler | 39.37780228 | -80.8441709 | Alliance Petroleum | Dry | David A Preston | 1 | 4858 | Benson | 747 |
| 470950126 | WV | Tyler | 39.3808472 | -80.83763106 | Alliance Petroleum | Gas | Lawrence Mercer | 1 | 5007 | Benson | 850 |
| 470950128 | WV | Tyler | 39.38592343 | -80.8452929 | Alliance Petroleum | Gas | Bruce & Veronica Smith | 1 | 5009 | Benson | 863 |
| 4709501285 | WV | Tyler | 39.38954841 | -80.84062202 | Alliance Petroleum | Gas | James C Ferrell | 1 | 5100 | Benson | 1032 |
| 4709501286 | WV | Tyler | 39.39534969 | -80.8505278 | Schultz Run Gas Company | Gas w/ Oil Show | Robert H Tennant | 1 | 5005 | Benson | 826 |
| 4709501300 | WV | Tyler | 39.36122369 | -80.82790523 | Alliance Petroleum | Gas | John R Pratt | 2 | 5150 | Benson | 949 |
| 4709501304 | WV | Tyler | 39.37384024 | -80.84583185 | Schultz Run Gas Company | Gas | Duane Clark et al | 1 | 4923 | Benson | 758 |
| 4709501312 | WV | Tyler | 39.37483806 | -80.83367761 | Energy Corporation of America | Not Drilled | Never Drilled (Canceled) | | not drilled | not drilled | 960 |
| 4709501314 | WV | Tyler | 39.36107879 | -80.83295012 | Greylock Conventional LLC | Gas | Charles Daughtery et al | 3 | 5090 | Benson | 926 |
| 4709501318 | WV | Tyler | 39.36658893 | -80.83576207 | Greylock Conventional LLC | Gas | Charles Daughtery et al | 1 | 5157 | Benson | 1012 |
| 4709501332 | WV | Tyler | 39.37483806 | -80.83367761 | Energy Corporation of America | Not Drilled | Never Drilled (Canceled) | | not drilled | not drilled | 960 |
| 4709501336 | WV | Tyler | 39.38635824 | -80.83482814 | Alliance Petroleum | Gas | Elmer Cecil | 1 | 5069 | Benson | 956 |
| 4709501338 | WV | Tyler | 39.38215313 | -80.83277518 | Alliance Petroleum | Gas | Timothy N Ingoglia | 1 | 5045 | Benson | 949 |
| 4709501350 | WV | Tyler | 39.3857785 | -80.84902981 | Alliance Petroleum | Gas | Ryan J Und et ux | 1 | 4907 | Benson | 785 |
| 4709501351 | WV | Tyler | 39.39172362 | -80.84959558 | Alliance Petroleum | Gas | Robert H Tennant | 2 | 5034 | Benson | 924 |
| 4709501382 | WV | Tyler | 39.38563332 | -80.83968703 | Alliance Petroleum | Gas | Matthew Ash | 3 | 5136 | Benson | 1049 |
| 4709501383 | WV | Tyler | 39.38331337 | -80.84398492 | Alliance Petroleum | Gas | Matthew Ash | 4 | 5117 | Benson | 1027 |
| 4709501405 | WV | Tyler | 39.37282494 | -80.8309022 | Alliance Petroleum | Gas | Conrad Costlow | 1 A | 2135 | Big Injun (undiff) | 976 |
| 4709501428 | WV | Tyler | 39.38070228 | -80.84192896 | Alliance Petroleum | Gas | Lawrence Mercer Hrs | 5 | 5002 | Benson | 893 |
| 4709501486 | WV | Tyler | 39.371152 | -80.83520209 | Drilling Appalachian Corp | Dry | Verna O Ash | 4 | 2155 | Big Injun (undiff) | 1036 |
| 4709501951 | WV | Tyler | 39.39563978 | -80.8548267 | Diversified Resources | Gas w/ Oil Show | Donna Marie Vandine | 2 | 6280 | Marcellus Sh | 728 |
| 4709502245 | WV | Tyler | 39.37127601 | -80.83562008 | Noble | | J E Ash et al | SHR08L | not drilled | not drilled | 1019 |
| 4709530346 | WV | Tyler | 39.38142731 | -80.84267595 | | Gas | Lucetta Mercer | 2 | 2101 | Squaw | 954 |
| 4709530650 | WV | Tyler | 39.37388707 | -80.83688306 | | Gas | P P Doak | | 1992 | Big Injun (undiff) | 972 |
| 4709530657 | WV | Tyler | 39.35807958 | -80.8247173 | | Gas | A U Davis | | 1972 | Big Injun (undiff) | 885 |
| 4709530824 | WV | Tyler | 39.37910719 | -80.83856504 | | Gas | Lawrence Mercer | 1 | 1904 | Squaw | 738 |
| 4709530855 | WV | Tyler | 39.34821857 | -80.83255109 | | Gas | Wm Smith | | 1836 | Big Injun (undiff) | 763 |
| 4709530887 | WV | Tyler | 39.37490217 | -80.84080697 | | Gas | Martin M Grove | 1 | 2010 | Big Injun (undiff) | 903 |
| 4709570182 | WV | Tyler | 39.37864113 | -80.8357641 | | not available | John Mercer | 1 | 1841 | Big Injun (undiff) | 770 |
| 4709590038 | WV | Tyler | 39.37907618 | -80.83782105 | | | | | | | 774 |

4709502652

WW-9
(4/16)

API Number 47 - 095 - 02652
Operator's Well No. SHR38 QHSM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: no pits

Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 47-001-00561, 47-097-01514, 47-097-01613, 34-013-2-0609)
- Reuse (at API Number SHR37 wells API TBD)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No Pits)

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical: All from sand/surface to curve kick-off point (KOP). Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD

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

Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. PER DEP approval, land application of soil

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A will be sent to an approved landfill

-Landfill or offsite name/permit number? See attached.

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 Erika Whetstone
Company Official (Typed Name) Erika Whetstone
Company Official Title Manager - Permitting

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Subscribed and sworn before me this 27th day of Sept, 2019 WV Department of Environmental Protection

Sara M Micoli

My commission expires 03/11/2023

Commonwealth of Pennsylvania - Notary Seal
Sara M. Micoli, Notary Public
Washington County
My commission expires March 11, 2023
Commission number 1268863
Member, Pennsylvania Association of Notaries

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 15.57 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

| Temporary | | Permanent | |
|-------------------|----------|-------------------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Orchard Grass | 25 | Orchard Grass | 25 |
| Birdsfoot Trefoil | 15 | Birdsfoot Trefoil | 15 |
| Ladino Clover | 10 | Ladino Clover | 10 |

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

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Environmental Protection

Title: _____ Date: _____

Field Reviewed? () Yes () No

Disclaimer: Vendors have been approved for the below category by ENV. UPDATED AGREEMENT with MSCM MUST BE CONFIRMED.

HSE APPROVED NON-HAZARDOUS WASTE DISPOSAL FACILITIES (version 05-23-2016)

| Republic Services (Allied Waste) Industrial Landfills | | Gas Specific Waste Streams | | | Other Accepted Waste Streams | | | | | | | | | Contact Information |
|--|------------------------|----------------------------|------------------|----------------|--|------------------------------------|---------------------|--------|---------------------|-------------------------|------------------|----------------------------|--------------------------|---------------------|
| Landfill | Location | Drill * Cuttings | Waste Liquors | Waste Brine | Contaminated Soil (Including Petroleum) | Construction & Demolition Waste | Industrial Waste | Sludge | Friable Asbestos | Non-Friable Asbestos | Process Waste | Solidification Services | Municipal Solid Waste | |
| McLean County | Bloomington | IL | X | X | X | X | X | X | X | X | X | | X | |
| BRC/Coles County | Charleston | IL | X | X | X | X | X | X | X | X | X | | X | |
| Brieryard Disposal | Danville | IL | X | X | X | X | X | X | X | X | X | | X | |
| Southern Illinois Regional | De Soto | IL | | | | | | | | | | | X | |
| Lee County | Dixon | IL | X | X | X | X | X | X | X | X | X | | X | |
| Upper Rock Island | East Moline | IL | X | X | X | X | X | X | X | X | X | | X | |
| Reed County | Greenville | IL | X | X | X | X | X | X | X | X | X | | X | |
| Illinois LandCorp | Hoopeston | IL | X | X | X | X | X | X | X | X | X | | X | |
| LandCorp | LaSalle | IL | X | X | X | X | X | X | X | X | X | | X | |
| Litchfield-Hillsboro | Litchfield | IL | X | X | X | X | X | X | X | X | X | | X | |
| Envirotech | Morris | IL | X | X | X | X | X | X | X | X | X | | X | |
| Livingston | Ponchar | IL | X | X | X | X | X | X | | X | X | | X | |
| Roxana | Roxana | IL | X | X | X | X | X | X | X | X | X | X | X | |
| Seymour Valley | Springfield | IL | X | X | X | X | X | X | X | X | X | | X | |
| Benton Valley | Frankfort | KY | X | X | X | X | X | X | X | X | X | | X | |
| Blair Range | Irvine | KY | X | X | X | X | X | X | X | X | X | | X | |
| Morehead | Morehead | KY | X | X | X | X | X | X | X | X | X | | X | |
| Green Valley | Rush | KY | X | X | X | X | X | X | X | X | X | X | X | |
| Cherokee Run | Bellefontaine | OH | | | X | X | X | X | | X | X | | X | |
| Williams County | Bryan | OH | | | X | X | X | X | X | X | X | | X | |
| County Environmental | Carey | OH | | | X | X | X | X | | X | X | | X | |
| Celina | Celina | OH | | | X | X | X | X | | X | X | | X | |
| Carbon-Limestone** | Lowellville | OH | X | X | X | X | X | X | | | X | X | X | |
| Countywide Landfill** | Bart Stara | OH | X | X | X | X | X | X | | | | | X | |
| Lorain County | Oberlin | OH | | | X | X | X | X | | | X | | X | |
| Oakland Marsh | Shiloh | OH | | | X | X | X | X | X | X | | | X | |
| Imperial | Imperial | PA | | | X | X | X | X | X | X | | | X | |
| Conestoga | Maryantown | PA | | | X | X | X | X | X | X | X | | X | |
| Brunswick | Lawrenceville | VA | | | X | X | X | X | X | X | X | | X | |
| King and Queen | Little Plymouth | VA | | | X | X | X | X | X | X | X | | X | |
| Old Dominion | Richmond | VA | | | X | X | X | X | X | X | X | | X | |
| Sycamore | Hurricane | WV | | | X | X | X | X | | | X | | X | |
| Short Creek | Wheeling (Short Creek) | WV | X | X | X | X | X | X | | | X | | X | |
| Katter Valley | Chesh Hill | TN | | | | | | | | | | | X | |

317-921-1667 or 480-627-2700
1-800-634-0215

Jack Palermo:
work: 330-536-8013
cell: 330-806-9660

Barbara Harsanyi:
work: 330-536-8013 x 120
cell: 330-423-7267

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| Waste Management | | Gas Specific Waste Streams | | | | | Other Accepted Waste Streams | | | | | | | Contact Information |
|---|-----------------|----------------------------|-----------------|----------------|--|------------------------------------|------------------------------|--------|---------------------|-------------------------|------------------|----------------------------|--------------------------|---------------------|
| Industrial Landfills | Location | Drill * Cuttings | Waste Liners | Waste Brine | Contaminated Soil (Including Petroleum) | Construction & Demolition Waste | Industrial Waste | Sludge | Friable Asbestos | Non-Friable Asbestos | Process Waste | Solidification Services | Municipal Solid Waste | |
| Arcos Landfill | Washington | PA | X | X | | X | X | X | | | X | X | X | |
| South Hills (Arnon) | South Park | PA | X | X | | X | X | X | | | X | X | X | |
| Kelly Run | Elizabeth | PA | X | X | | X | X | X | | | X | X | X | |
| Valley Landfill | Irwin | PA | X | X | | X | X | X | X | X | X | X | X | |
| Evergreen Landfill | Blairsville | PA | X | X | | X | X | X | | | X | X | X | |
| Charleston Landfill (Kanawha County) | Charleston | WV | X | X | | X | X | X | | | X | X | X | |
| Meadowhill Landfill | Bridgeton | WV | X | X | | X | X | X | X | X | X | X | X | |
| Northwestern Landfill | Parkersburg | WV | X | X | | X | X | X | | | X | X | X | |
| S&S Grading Landfill | Clarksburg | WV | X | X | | X | X | X | | | X | X | X | |
| American Landfill | Waynesburg | OH | X | X | | X | X | X | X | X | X | X | X | |
| Suburban RDF | Glenford | OH | X | X | | X | X | X | X | X | X | X | X | |
| Cochocton Landfill*** | Cochocton | OH | X | X | | X | X | X | | | X | X | X | |
| Mehoning Landfill | New Springfield | OH | X | X | | X | X | X | | | X | X | X | |

| Additional Landfills | | Gas Specific Waste Streams | | | | | Other Accepted Waste Streams | | | | | | | Contact Information |
|---|---|----------------------------|-----------------|----------------|--|------------------------------------|------------------------------|--------|---------------------|-------------------------|------------------|----------------------------|--------------------------|---------------------|
| Landfill | Location | Drill * Cuttings | Waste Liners | Waste Brine | Contaminated Soil (Including Petroleum) | Construction & Demolition Waste | Industrial Waste | Sludge | Friable Asbestos | Non-Friable Asbestos | Process Waste | Solidification Services | Municipal Solid Waste | |
| Westmoreland Waste (WWLC Group) | 111 Conner Lane, Belle Vernon, PA 15012 | PA | X | X | | X | X | X | X | X | | X | X | |
| MAX Environmental (Water Facility) | 200 Max Drive, Bellefonte, PA 16810 | PA | X | X | | X | X | X | | | | X | X | |
| MAX Environmental (Yukon Facility) | 233 MAX Lane, Yukon, PA 1-696 | PA | X | X | | X | X | X | | | | X | X | |
| Apex Sanitary Landfill (Apex Environmental) | 11 County Road 78, Amsterdam, Ohio 43003 | OH | X | X | | X | X | X | | | | X | X | |
| Rumpke, Mt. Sterling (Rumpke Consolidated) | 30 Larson Rd., Jeffersonville, KY 40337 | KY | X | X | | X | X | X | X | X | | | X | |
| Laurel Ridge Landfill (Waste Connections of KY) | 3612 E State Highway 552, Ithaca, KY 40740 | KY | X | X | | X | X | X | | | X | | X | |
| Advanced Disposal | Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458 | PA | X | X | | X | X | X | | | | | X | |
| | Greentree Landfill; 635 Teby Rd.; Kersy, PA | PA | X | X | | X | X | X | | | | | X | |
| | Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA | PA | X | X | | X | X | X | | | | | X | |

** Ohio "TENORM" - requires Radium 226/228 analysis by land before leaving the well pad. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocuries per gram above the natural background level.
 *** Accepts drilling wastes but profile for disposal is not currently completed.
 X Waste stream accepted by facility.
 Waste stream is not or may not be accepted by facility. Contact facility directly to verify waste streams accepted.
 Notes: New PADEP rules regarding "TENORM" testing requirements are pending.
 * Drill Cuttings include fine sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

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Site Safety Plan for Well SHR38QHSM

CNX Gas Company, LLC.



JUL 24 2019

Department of
Environmental Protection 1
7/22/2019

Approval Sheet

The Office of Oil and Gas and the Oil and Gas Conservation Commission have set forth minimum requirements for necessary equipment and procedures that must be addressed in a Safety Plan ("Plan") and shall be submitted and approved prior to drilling a deep well. A deep well shall be any well which meets the definition as provided for in Chapter 22C, Article 9 of the West Virginia Code.

A site specific Safety Plan must be submitted with each deep well application or no later than one week prior to spudding. Approved Plans shall be maintained and available at the drilling rig at all times.

The Office of Oil and Gas must approve all changes and modifications to previously approved plans.

This plan has met the requirements of the Policy Statement Deep Well Drilling Procedures and Site Safety Plan Requirements as set forth by:

West Virginia Division of Environmental Protection, Office of Oil and Gas

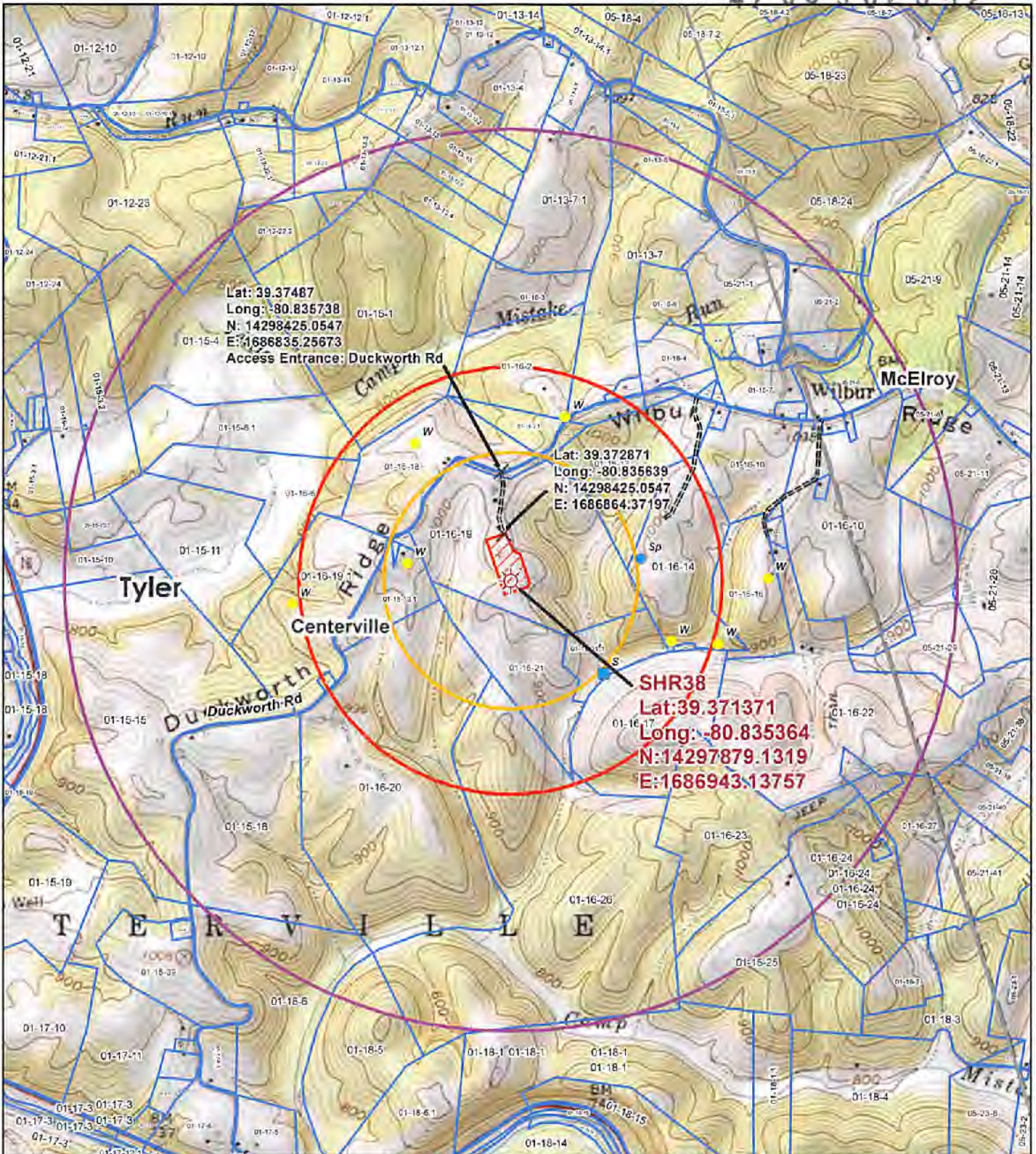
And

West Virginia Oil and Gas Conservation Commission.

Approved this day _____ of month _____, 20__ by

_____ Date: _____

_____ Date: _____



Lat: 39.37487
 Long: -80.835738
 N: 14298425.0547
 E: 1686835.25673
 Access Entrance: Duckworth Rd

Lat: 39.372871
 Long: -80.835639
 N: 14298425.0547
 E: 1686864.37197

SHR38
 Lat: 39.371371
 Long: -80.835364
 N: 14297879.1319
 E: 1686943.13757

Legend

- Wellbore
- Access Road
- Surface Parcel
- Well Pad
- Sp
- 1,500 Foot Buffer
- 2,500 Foot Buffer
- 1 Mile Buffer
- St
- W



0 1,000 2,000
 Feet
 1 inch = 1,500 feet

Original Date: 5/8/2018

Prepared By: GIS

Revision Date: 5/8/2018

Approved By: GIS

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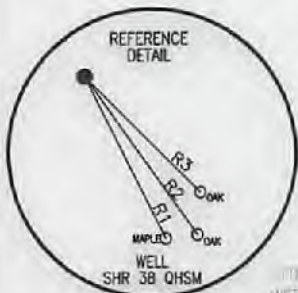
Topographic Well Map

SHR38

WV Department of Environmental Protection

| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| R1 | S 26°29'54" E | 237.39' |
| R2 | S 35°24'02" E | 254.66' |
| R3 | S 44°58'14" E | 214.61' |
| R4 | N 75°46'14" W | 1089.21' |
| R5 | S 84°07'23" W | 849.74' |
| R6 | S 40°41'36" E | 1040.41' |

BHL is located on topo map 10,101 feet south of Latitude: 39°25'00"
 SHL is located on topo map 1,230 feet south of Latitude: 39°22'30"

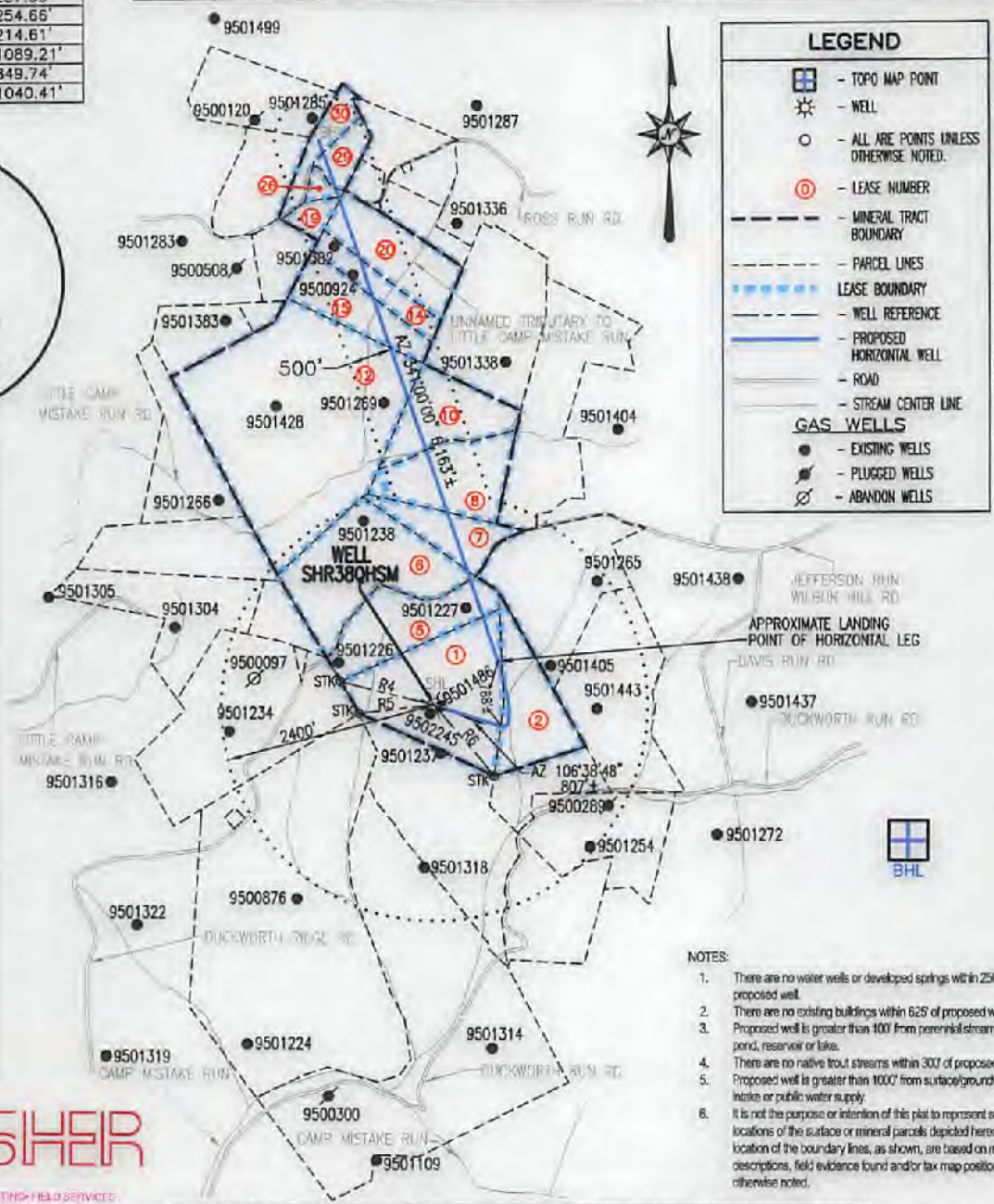


SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4358030.15
 E:514187.40
 NAD83, WV NORTH
 N:320274.010
 E:1591026.502
 LAT/LON DATUM-NAD83
 LAT:39°22'17.840"
 LON:80°50'07.053"

APPROX. LANDING POINT
 UTM 17-NAD83
 N:4358185.59
 E:514404.28
 NAD83, WV NORTH
 N:320772.204
 E:1591746.696
 LAT/LON DATUM-NAD83
 LAT:39°22'22.869"
 LON:80°49'57.977"

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4359950.68
 E:513763.36
 NAD83, WV NORTH
 N:326599.492
 E:1589740.195
 LAT/LON DATUM-NAD83
 LAT:39°23'20.164"
 LON:80°50'24.833"

THRASHER
 CIVIL/ENVIRONMENTAL/COMBUSTION/FIELD SERVICES
 808 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26305
 PHONE (304) 224-4100 FAX (304) 624-7691

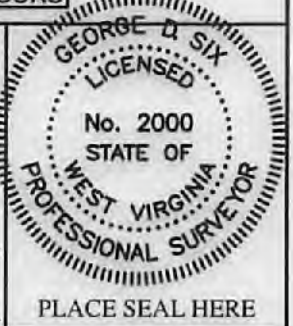


BHL is located on topo map 1,934 feet west of Longitude: 80°50'00"
 SHL is located on topo map 554 feet west of Longitude: 80°50'00"

SEE PAGE 2 & 3 FOR SURFACE OWNERS AND LESSORS

FILE #: SHR 38 QHSM
 DRAWING #: SHR 38 QHSM
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: George D. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

DATE: JULY 3, 2019
 OPERATOR'S WELL #: SHR 38 QHSM
 API WELL #: 47 95 02652 WVA

STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 1012±
 COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: WEST UNION, WV 7.5'
 SURFACE OWNER: JAMES E. ASH ET AL ACREAGE: 111±
 OIL & GAS ROYALTY OWNER: JAMES E. ASH ET AL ACREAGE: 363.118±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,480± TMD: 13,181±
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT ANTHONY KENDZIORA
 Address 1000 CONSOL ENERGY DRIVE Address 1000 CONSOL ENERGY DRIVE
 City CANONSBURG State PA Zip Code 15317 City CANONSBURG State PA Zip Code 15317

SHR 38 QHSM

PAGE 2 OF 3

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| 6 | DIANA L. BOGER | EDNA DILLON SAMUEL DAVID DILLON AND DONNA L. DILLON, H/W HOWARD D. SPURLOCK AND MARIAN E. SPURLOCK, H/W EDITH M. DOAK PEARL G. MCINTYRE PAUL MCINTYRE KERMIT MCINTYRE AND RUTH MCINTYRE, H/W SHEILA L. GUY EDITH W. MCINTYRE | P/O 1-16/18 |
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SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4358030.15
E:514187.40
NAD83, WV NORTH
N:320274.010
E:1591026.502
LAT/LON DATUM-NAD83
LAT:39°22'17.840"
LONG:80°50'07.053"

APPROX. LANDING POINT

UTM 17-NAD83
N:4358185.59
E:514404.28
NAD83, WV NORTH
N:320772.204
E:1591746.696
LAT/LON DATUM-NAD83
LAT:39°22'22.869"
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BOTTOM HOLE LOCATION (BHL)

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E:513763.36
NAD83, WV NORTH
N:326599.492
E:1589740.195
LAT/LON DATUM-NAD83
LAT:39°23'20.164"
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JULY 3, 2019

API WELL #: 47 95 02452440

STATE COUNTY PERMIT

SHR 38 QHSM

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| 29 | ONA M. QUELLHORST | ROBERT L. UNDERWOOD AND VICTORIA M. UNDERWOOD, H/W | P/O 1-13/12 |
| | THOMAS VAN DE BUNT | | P/O 1-13/12.2 |
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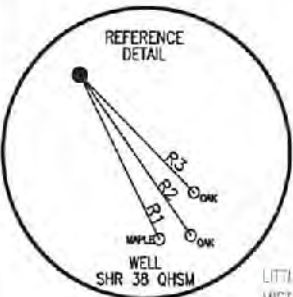
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N:4359950.68
E:513763.36
 NAD83, WV NORTH
 N:326599.492
 E:1589740.195
LAT/LON DATUM=NAD83
LAT:39°23'20.164"
LON:80°50'24.633"

| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| R1 | S 26°29'54" E | 237.39' |
| R2 | S 35°24'02" E | 254.66' |
| R3 | S 44°58'14" E | 214.61' |
| R4 | N 75°46'14" W | 1089.21' |
| R5 | S 84°07'23" W | 849.74' |
| R6 | S 40°41'36" E | 1040.41' |

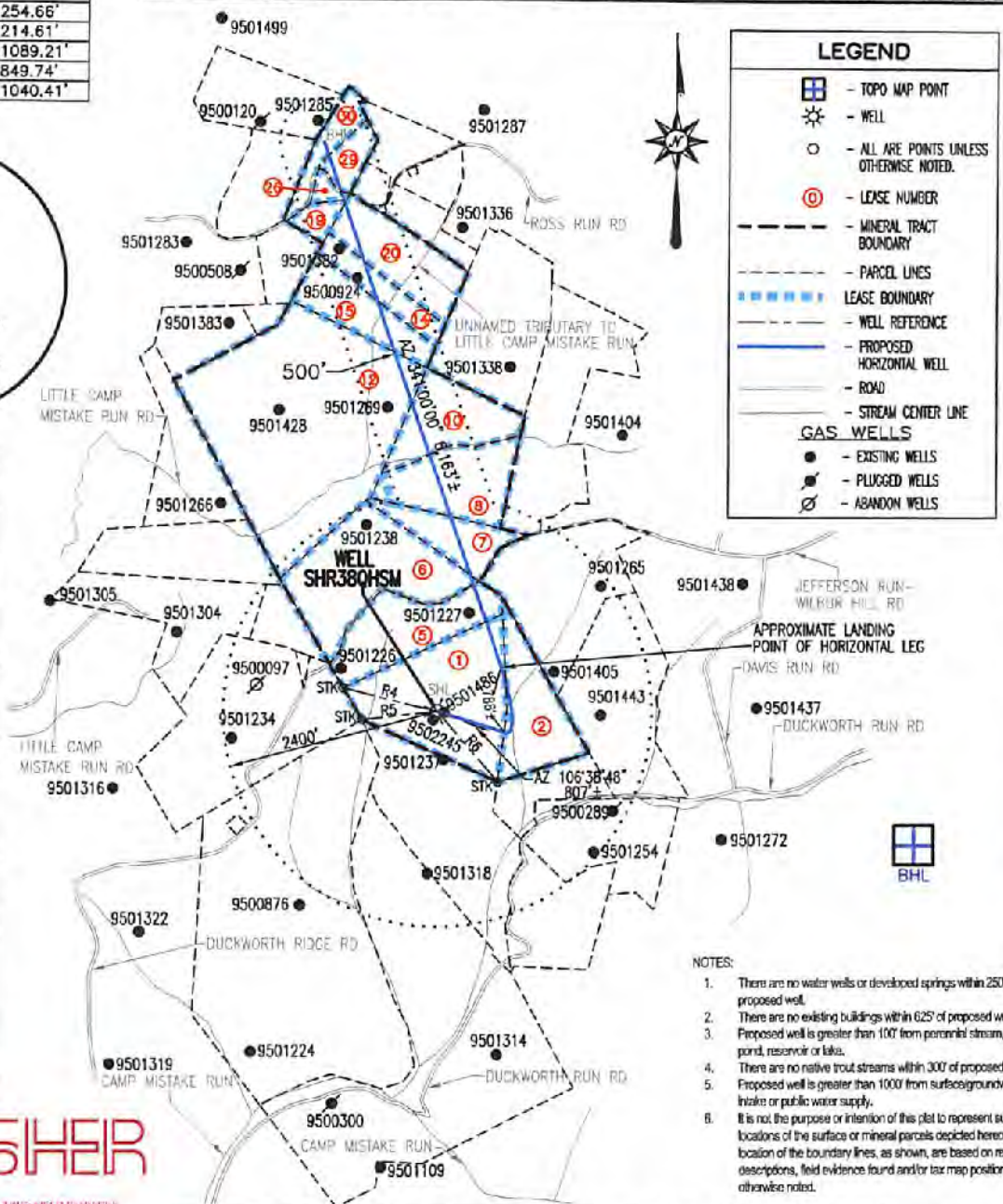
BHL is located on topo map 10,101 feet south of Latitude: 39°25'00"
 SHL is located on topo map 1,230 feet south of Latitude: 39°22'30"



SURFACE HOLE LOCATION (SHL)
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BHL is located on topo map 1,934 feet west of Longitude: 80°50'00"
 SHL is located on topo map 554 feet west of Longitude: 80°50'00"

- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

THRASHER

ENVIRONMENTAL CONSULTING FIELD SERVICES
 800 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26030
 PHONE (304) 624-4106 FAX (304) 624-7531

SEE PAGE 2 & 3 FOR SURFACE OWNERS AND LESSORS

FILE #: SHR 38 QHSM
 DRAWING #: SHR 38 QHSM
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: George A. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

DATE: JULY 3, 2019
 OPERATOR'S WELL #: SHR 38 QHSM
 API WELL #: 47 95 02652 46A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 1012'±
 COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: WEST UNION, WV 7.5'
 SURFACE OWNER: JAMES E. ASH ET AL ACREAGE: 111±
 OIL & GAS ROYALTY OWNER: JAMES E. ASH ET AL ACREAGE: 363.118±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,480'± TMD: 13,181'±
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT ANTHONY KENDZIORA
 Address 1000 CONSOL ENERGY DRIVE Address 1000 CONSOL ENERGY DRIVE
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| | THOMAS VAN DE BUNT | | P/O 1-13/12.2 |
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WW-6A1
(5/13)

Operator's Well No. SHR38QHSM

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

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

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

| Lease Name or Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-------------------------|-----------------------|-----------------------|---------|-----------|
| SEE ATTACHED | | | | |

**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

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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: CNX GAS COMPANY LLC

By: ERIKA WHETSTONE

Its: PERMITTING MANAGER

Attachment - Form WW 6A-1 for SHR 38 QHSM

| Tract ID | Tax Map & Parcel | Title Opinion QLS # | Grantor, Lessor, etc | Grantee, Lessee, etc | Royalty | Book/Page |
|----------|------------------|---------------------|---|----------------------------------|-------------------|-----------|
| 1 | 1-16-19 | 258998000 | Verna O. Ash, James E. Ash and Thelma B. Ash, Bessie Haught and Harold Warner, Ernest G. Seckman and O. Joanne Seckman Ralph E. Phillips and Velinda Phillips, h/w | Drilling Appalachian Corporation | Not less than 1/8 | 269/571 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 271/103 |
| | | | | Drilling Appalachian Corporation | Assignment | 322/190 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | 50% Assignment | 388/286 |
| | | | | Drilling Appalachian Corporation | 50% Assignment | 542/134 |
| | | | | Drilling Appalachian Corporation | Assignment | 550/273 |

| Tract ID | Tax Map & Parcel | Title Opinion QLS # | Grantor, Lessor, etc | Grantee, Lessee, etc | Royalty | Book/Page |
|----------|------------------|---------------------|---|----------------------------------|-------------------|-----------|
| 2 | 1-16-19 | 288769000 | Verna O. Ash, James E. Ash and Thelma B. Ash, Bessie Haught and Harold Warner, Ernest G. Seckman and O. Joanne Seckman Ralph E. Phillips and Velinda Phillips, h/w | Drilling Appalachian Corporation | Not less than 1/8 | 269/571 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 271/103 |
| | | | | Drilling Appalachian Corporation | Assignment | 476/580 |
| | | | | Drilling Appalachian Corporation | 50% Assignment | 542/134 |
| | | | | Drilling Appalachian Corporation | Assignment | 550/273 |

| | | | |
|--|----------------------|-------------------|---------|
| Martha Sue Muzio, f/k/a Martha Sue Lococo | Noble Energy, Inc. | Not less than 1/8 | 449/754 |
| Mary Lynne Slattery, f/k/a Mary Lynne Lococo | Noble Energy, Inc. | Not less than 1/8 | 449/752 |
| Rita G. Jarvis | Noble Energy, Inc. | Not less than 1/8 | 449/750 |
| Jo Ellen Harper Day | Noble Energy, Inc. | Not less than 1/8 | 449/748 |
| William Paul Harper | Noble Energy, Inc. | Not less than 1/8 | 449/744 |
| Marion R. Bachelor and Gloria Jean Bachelor, h/w | Noble Energy, Inc. | Not less than 1/8 | 449/746 |
| Berdina Rose and Norman W. Rose, w/h | Noble Energy, Inc. | Not less than 1/8 | 452/700 |
| David Paul Lococo | Noble Energy, Inc. | Not less than 1/8 | 449/499 |
| Elizabeth Florence Lococo | Noble Energy, Inc. | Not less than 1/8 | 453/545 |
| Mary Lee Lilly | Noble Energy, Inc. | Not less than 1/8 | 453/519 |
| Michelle Lococo Bushmire, f/k/a, Michelle Lucretia Bushmire | Noble Energy, Inc. | Not less than 1/8 | 453/521 |
| Donald Vincent Lococo | Noble Energy, Inc. | Not less than 1/8 | 453/537 |
| Margo Kiehl | Noble Energy, Inc. | Not less than 1/8 | 458/759 |
| John Michael Leonian | Noble Energy, Inc. | Not less than 1/8 | 458/765 |
| John Fulton Leonian | Noble Energy, Inc. | Not less than 1/8 | 458/747 |
| Jeffrey Todd Heflin | Noble Energy, Inc. | Not less than 1/8 | 465/252 |
| Jason S. Heflin and Jessica L. Heflin, h/w | Noble Energy, Inc. | Not less than 1/8 | 465/254 |
| Nia Ash Saylor Revocable Trust, by Joseph F. Silek, Jr., Trustee | Noble Energy, Inc. | Not less than 1/8 | 465/264 |
| Phillip Leonian, a/k/a Phillip Marshall Leonian | Noble Energy, Inc. | Not less than 1/8 | 465/581 |
| Robert Leonian, a/k/a, Joseph Robert Leonian | Noble Energy, Inc. | Not less than 1/8 | 465/606 |
| Bailey Ann Mills | Noble Energy, Inc. | Not less than 1/8 | 462/553 |
| Armen Leonian, a/k/a Armen Ianham Leonian | Noble Energy, Inc. | Not less than 1/8 | 465/583 |
| Theresa Lee Robertson | Noble Energy, Inc. | Not less than 1/8 | 471/696 |
| Rose Marie VanHeuveln | Noble Energy, Inc. | Not less than 1/8 | 526/567 |
| Commonwealth Energy, Inc. a/k/a Commonwealth Energy | Noble Energy, Inc. | Not less than 1/8 | 480/837 |
| Noble Energy, Inc. | CNX Gas Company, LLC | Assignment | 473/216 |
| Noble Energy, Inc. | CNX Gas Company, LLC | Assignment | 493/223 |
| Noble Energy, Inc. | CNX Gas Company, LLC | Assignment | 499/447 |
| Noble Energy, Inc. | CNX Gas Company, LLC | Assignment | 513/299 |
| Noble Energy, Inc. | CNX Gas Company, LLC | Assignment | 542/147 |
| Noble Energy, Inc. | CNX Gas Company, LLC | Assignment | 545/529 |
| Noble Energy, Inc. | CNX Gas Company, LLC | Assignment | 550/273 |

| Tract ID | Tax Map & Parcel | Title Opinion QLS # | Grantor, Lessor, etc | Grantee, Lessee, etc | Royalty | Book/Page |
|----------|------------------|---------------------|---|----------------------------------|-------------------|-----------|
| 5 | 1-16-19 | 258998000 | Verna O. Ash, James E. Ash and Thelma B. Ash, Bessie Haught and Harold Warner, Ernest G. Seckman and O. Joanne Seckman Ralph E. Phillips and Velinda Phillips, h/w | Drilling Appalachian Corporation | Not less than 1/8 | 269/571 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 271/103 |
| | | | | Drilling Appalachian Corporation | Assignment | 322/190 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | Merger | 384/191 |
| | | | | Drilling Appalachian Corporation | 50% Assignment | 388/286 |
| | | | | Drilling Appalachian Corporation | 50% Assignment | 542/134 |
| | | | | Drilling Appalachian Corporation | Assignment | 550/273 |

| Tract ID | Tax Map & Parcel | Title Opinion QLS # | Grantor, Lessor, etc | Grantee, Lessee, etc | Royalty | Book/Page |
|----------------------------------|------------------|---------------------|--|----------------------------------|-------------------|-----------|
| 6 | 1-16-18 | 288609000 | Edna Dillon Samuel David Dillon and Donna L. Dillon, h/w Howard D. Spurlock and Marian E. Spurlock, h/w Edith M. Doak Pearl G. McIntyre Paul McIntyre Kermit McIntyre and Ruth McIntyre, h/w Shella L. Guy Edith W. McIntyre | Drilling Appalachian Corporation | Not less than 1/8 | 271/604 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 273/276 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 273/97 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 273/93 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 273/95 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 273/112 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 273/110 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 273/774 |
| | | | | Drilling Appalachian Corporation | Not less than 1/8 | 271/608 |
| | | | | Drilling Appalachian Corporation | Assignment | 322/190 |
| Drilling Appalachian Corporation | Merger | 384/191 | | | | |
| Drilling Appalachian Corporation | Merger | 384/191 | | | | |
| Drilling Appalachian Corporation | Merger | 384/191 | | | | |
| Drilling Appalachian Corporation | Merger | 384/191 | | | | |
| Drilling Appalachian Corporation | 50% Assignment | 388/286 | | | | |
| Drilling Appalachian Corporation | 50% Assignment | 542/134 | | | | |
| Drilling Appalachian Corporation | Assignment | 550/273 | | | | |

| Tract ID | Tax Map & Parcel | Title Opinion QLS # | Grantor, Lessor, etc | Grantee, Lessee, etc | Royalty | Book/Page |
|----------|------------------|---------------------|--|---|--|---|
| 29 | 1-13-12 | 288612000 | Robert L. Underwood and Victoria M. Underwood, h/w | Drilling Appalachian Corporation | Not less than 1/8 | 275/388 277/685 277/195 277/226 278/323 323/383 WV505 |
| | | | Drilling Appalachian Corporation Anvil Oil Company Dominion Appalachian Development, Inc. | Justin L. Henderson d/b/a Anvil Oil Company Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC | Assignment Assignment Name Change | 384/191 384/191 384/191 384/191 388/286 550/273 |
| | | | Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. | CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC | Merger Merger Merger Merger 50% Assignment Assignment | |

| Tract ID | Tax Map & Parcel | Title Opinion QLS # | Grantor, Lessor, etc | Grantee, Lessee, etc | Royalty | Book/Page |
|----------|------------------|---------------------|---|--|--|--|
| 30 | 1-13-12.1 | 288612000 | Judy S. Wetzel, fka Judy Thacker Mary Frances Carpenter Janice J. Wagener, fka, Janice L. May Roy Dean Ash Larry J. McCaw and Joette B. McCaw, h/w James F. Bramhall Kitty Mieslak, f/k/a Kitty Bond Betty E. Morrison Noble Energy Inc. Noble Energy Inc. | Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC | Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 50% Assignment Assignment | 452/694 452/696 452/698 453/537 453/533 453/515 453/517 453/641 549/529 550/273 |
| | | | Colleen J. Patrick Evelyn J. Linville Marylyn M. Smith, f/k/a, Marylyn J. Smith Marc P. Wise Michael D. Wise | CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC | Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 | 602/664 599/810 599/801 599/796 599/791 |

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WV Department of
Environmental Protection

545



Erika Whetstone
Permitting Manager
1000 Consol Energy Dr.
Canonsburg, PA 15317
(724) 485-4035

West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charlestown, WV 25304-2345

RE: Road Letter – SHR38 Well Pad Drilling Applications

To Whom It May Concern:

CNX Gas Company, LLC has the right to drill, stimulate and produce wells that are drilled under the County and State roads as designated on the plats.

If any further information or correspondence is required, please contact me at (724) 485-4035 or ErikaWhetstone@cnx.com.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Erika Whetstone'.

Erika Whetstone
Permitting Manager

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WV Department of
Environmental Protection

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

Date of Notice Certification: 7/23/19

API No. 47- 095 -
Operator's Well No. SHR38QHSM
Well Pad Name: SHR38

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>WEST VIRGINIA</u> | UTM NAD 83 | Easting: | <u>514187.4010</u> |
| County: | <u>TYLER</u> | | Northing: | <u>4358030.1500</u> |
| District: | <u>CENTERVILLE</u> | Public Road Access: | <u>DUCKWORTH RIDGE ROAD</u> | |
| Quadrangle: | <u>WEST UNION</u> | Generally used farm name: | <u>ASH</u> | |
| Watershed: | <u>MIDDLE ISLAND CREEK</u> | | | |

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

| | |
|---|---|
| <p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p> | <p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> |
|---|---|

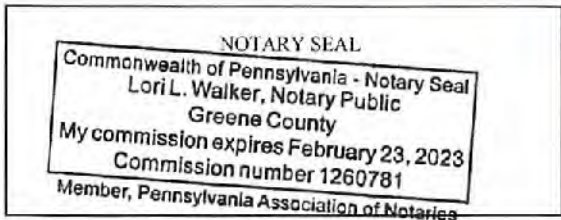
Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, I ERIKA WHETSTONE, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | | | |
|----------------|---|------------|---------------------------------|
| Well Operator: | <u>CNX GAS COMPANY LLC</u> | Address: | <u>1000 CONSOL ENERGY DRIVE</u> |
| By: | <u>ERIKA WHETSTONE <i>Erika Whetstone</i></u> | | <u>CANONSBURG PA 15370</u> |
| Its: | <u>PERMITTING MANAGER</u> | Facsimile: | <u></u> |
| Telephone: | <u>724-485-4035</u> | Email: | <u>ERIKAWHETSTONE@CNX.COM</u> |



Commonwealth of Pennsylvania
County of Washington
 Subscribed and sworn before me this 23rd day of July 2019.
Lori L Walker Notary Public
 My Commission Expires February 23, 2023

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
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 WV Department of
 Environmental Protection

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

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

Date of Notice: 7/23/19 Date Permit Application Filed: 7/23/19

Notice of:

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

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

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

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

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

SURFACE OWNER(s)

Name: SEE ATTACHED
Address: _____

Name: _____
Address: _____

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

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: SEE ATTACHED
Address: _____

COAL OPERATOR

Name: _____
Address: _____

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

Name: SEE ATTACHED
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary.

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47-095 -
OPERATOR WELL NO. SHR38DHSM
Well Pad Name: SHR38

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

JUL 24 2019

WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 095 -
OPERATOR WELL NO. SHR38QHSM
Well Pad Name: SHR38

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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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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WV Department of
Environmental Protection

WW-6A
(8-13)

4709502652

API NO. 47-095 -
OPERATOR WELL NO. SHR38QHSM
Well Pad Name: SHR38

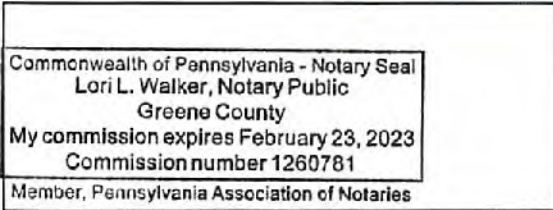
Notice is hereby given by:

Well Operator: CNX GAS COMPANY LLC *Erika Whetstone*
Telephone: 724-485-4035
Email: ERIKAWHETSTONE@CNX.COM

Address: 1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317
Facsimile: _____

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Commonwealth of Pennsylvania
County of Washington
Subscribed and sworn before me this 23rd day of July 2019.
Lori L Walker Notary Public
My Commission Expires February 23, 2023

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JUL 24 2019
WV Department of
Environmental Protection

Surface Owners:

| | |
|---|--|
| Estate of James Eli Ash, c/o Robert Bruce Ash, Executor | 7717 Summerset Drive Apex, NC 27539 |
| Bradley James Ash | 2073 Duckworth Ridge Road Alma, WV 26320 |
| Bryan Ervin Ash | 8707 Middle Island Road Alma, WV 26320 |
| Robert Bruce Ash | 7717 Summerset Drive Apex, NC 27539 |
| William Brent Ash | 102 Heather Court Saint Robert, MO 65584 |
| Paula Marie Keplinger | 240 Conaway Run Road Alma, WV 26320 |
| Pamela Kay Moore | 2450 Stockton Road Frankfort, KY 40601 |
| Becannray LLC | 5042 Tyler Highway Sistersville, WV 26175 |
| Nicole Eastham | 34973 State Route 800 New Matamoras, OH 45767 |
| Alexandria Fetty | 34973 State Route 800 New Matamoras, OH 45767 |
| Rachelle Hise | 37559 State Route 7 Sardis, OH 43946 |
| Potts Place LLC | 353 Foundry Street New Martinsville, WV 26155 |
| STS Enterprises LLC | 659 Jefferson Run Road Alma, WV 26320 |
| Bessie Warner | 771 McElroy Creek Road Alma, WV 26320 |

Coal Owners:

| | |
|---|--|
| Estate of James Eli Ash, c/o Robert Bruce Ash, Executor | 7717 Summerset Drive Apex, NC 27539 |
| Bradley James Ash | 2073 Duckworth Ridge Road Alma, WV 26320 |
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| Robert Bruce Ash | 7717 Summerset Drive Apex, NC 27539 |
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| Paula Marie Keplinger | 240 Conaway Run Road Alma, WV 26320 |
| Pamela Kay Moore | 2450 Stockton Road Frankfort, KY 40601 |
| Becannray LLC | 5042 Tyler Highway Sistersville, WV 26175 |

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| | |
|---------------------|---|
| Nicole Eastham | 34973 State Route 800 New Matamoras, OH 45767 |
| Alexandria Fetty | 34973 State Route 800 New Matamoras, OH 45767 |
| Rachelle Hise | 37559 State Route 7 Sardis, OH 43946 |
| Potts Place LLC | 353 Foundry Street New Martinsville, WV 26155 |
| STS Enterprises LLC | 659 Jefferson Run Road Alma, WV 26320 |
| Bessie Warner | 771 McElroy Creek Road Alma, WV 26320 |
| Ralph E Phillips | 6411 Veterans Highway New Martinsville, WV 26155 |

Surface Owner of Water Well and/or Water Purveyor(s):

ASH, JAMES E

8707 MIDDLE ISLAND RD ALMA WV 26320

ANDERS, JOHN R II

804 PETERS RUN RD WHEELING WV 26003

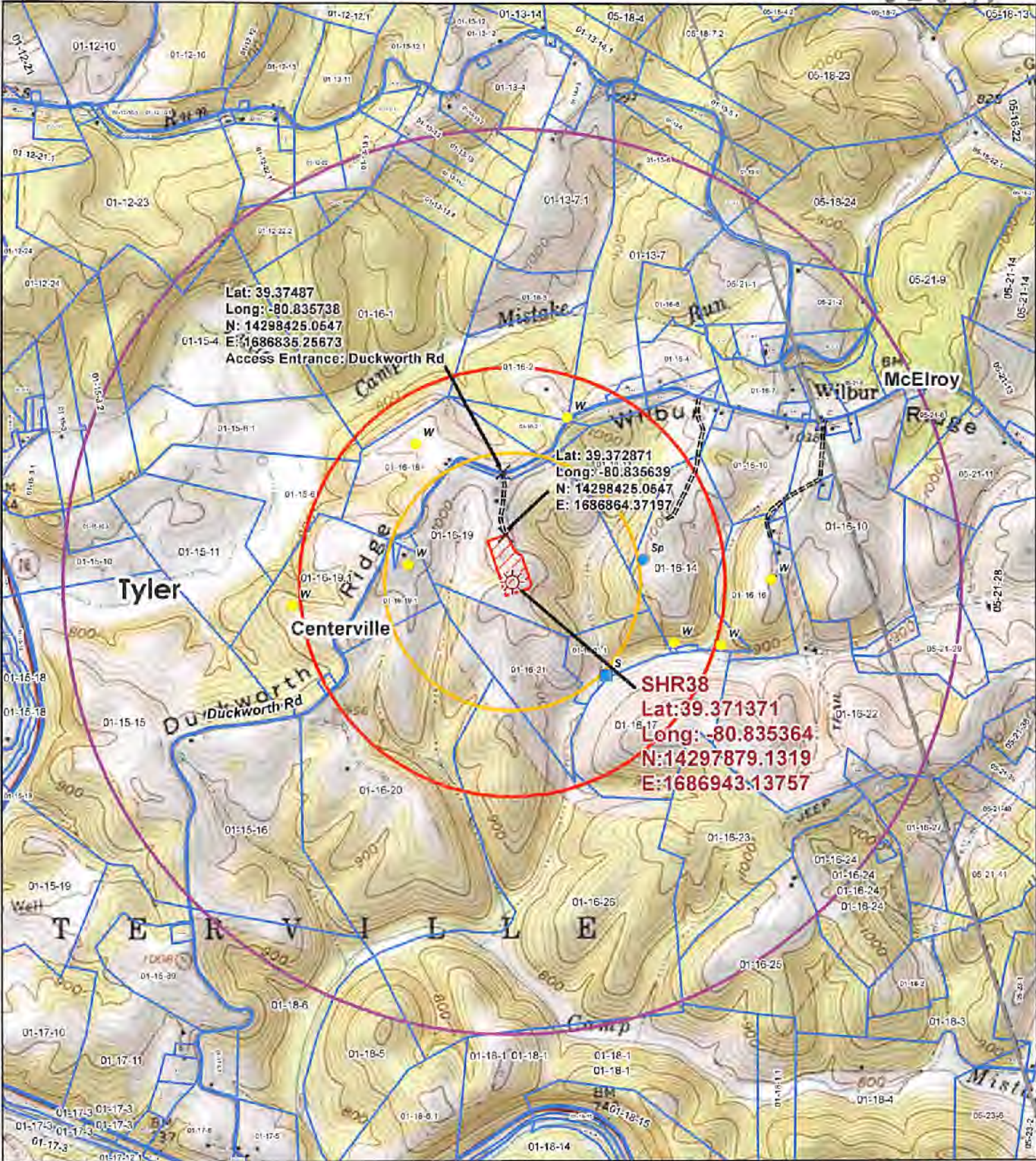
COSTILOW, CONRAD

13310 MIDDLE ISLAND RD WEST UNION WV 26456

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Environmental Protection



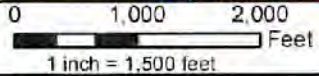
Lat: 39.37487
 Long: -80.835738
 N: 14298425.0547
 E: 1686835.25673
 Access Entrance: Duckworth Rd

Lat: 39.372871
 Long: -80.835639
 N: 14298425.0547
 E: 1686864.37197

SHR38
 Lat: 39.371371
 Long: -80.835364
 N: 14297879.1319
 E: 1686943.13757

Legend

- Wellbore
- Access Road
- Surface Parcel
- Well Pad
- 1,500 Foot Buffer
- 2,500 Foot Buffer
- 1 Mile Buffer
- Sp
- St
- W



Original Date: 5/8/2013

Prepared By: GIS

Revision Date: 5/8/2018

Approved By: GIS

This map is property of CNX Land Resources Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.
 © Copyright CNX Land Resources Inc. 2011

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 Office of Oil and Gas
 Topographic Well Map
SHR38
 JUL 24 2018
 WV Department of Environmental Protection

Surface Owners:

| | |
|---|--|
| Estate of James Eli Ash, c/o Robert Bruce Ash, Executor | 7717 Summerset Drive Apex, NC 27539 |
| Bradley James Ash | 2073 Duckworth Ridge Road Alma, WV 26320 |
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| STS Enterprises LLC | 659 Jefferson Run Road Alma, WV 26320 |
| Bessie Warner | 771 McElroy Creek Road Alma, WV 26320 |

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

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

Date of Notice: 7/23/19 Date Permit Application Filed: 7/23/19

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: <u>SEE ATTACHED</u> | Name: _____ |
| Address: _____ | 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: <u>WEST VIRGINIA</u> | UTM NAD 83 | Easting: <u>514187.4010</u> |
| County: <u>TYLER</u> | | Northing: <u>4358030.1500</u> |
| District: <u>CENTERVILLE</u> | Public Road Access: <u>DUCKWORTH RIDGE ROAD</u> | |
| Quadrangle: <u>WEST UNION</u> | Generally used farm name: <u>ASH</u> | |
| Watershed: <u>MIDDLE ISLAND CREEK</u> | | |

This Notice Shall Include:

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

| | |
|---|--|
| Well Operator: <u>CNX GAS COMPANY LLC</u> | Address: <u>1000 CONSOL ENERGY DRIVE</u> |
| Telephone: <u>724-485-4035</u> | <u>CANONSBURG PA 15370</u> |
| Email: <u>ERIKAWHETSTONE@CNX.COM</u> | Facsimile: _____ |

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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Surface Owners:

| | |
|---|--|
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| Bryan Ervin Ash | 8707 Middle Island Road Alma, WV 26320 |
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| Alexandria Fetty | 34973 State Route 800 New Matamoras, OH 45767 |
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| Bessie Warner | 771 McElroy Creek Road Alma, WV 26320 |

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation

June 28, 2019

Jimmy Wriston, P. E.
Deputy Secretary/
Acting Commissioner

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 SHR-38 Pad, Tyler County
SHR38QHSM Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0331 issued to CNX Gas Company LLC, for access to the State Road for a well site located off Tyler County Route 58/2 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. 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 October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Shannon Miller
CNX Gas Company LLC
CH, OM, D-6
File

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Proposed Additives to be used in Fracturing or Stimulations

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

Type: Copolymer of Two Propenamide CAS: 69418-26-4

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

Type: Diethylene glycol mono n-butyl ether CAS: 112-34-5

Type: Oleic acid diethanolamide CAS: 93-83-4

Type: Alcohols, C12-16, ethoxylated CAS: 68551-12-2

Type: Quaternary ammonium compound CAS: 68424-85-1

Type: Ammonium chloride CAS: 12125-02-9

Type: Short chained glycol ether CAS: 112-34-5

Type: Ethoxylated (C10-16) alcohols CAS: 68002-97-1

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

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JUL 24 2019

WV Department of
Environmental Protection

**WVDEP OOG
ACCEPTED AS-BUILT**
8/23/2019

SITE AS-BUILT SHRL38 WELL SITE

CENTERVILLE DISTRICT
TYLER COUNTY, WEST VIRGINIA

CNX RESOURCES CORPORATION

NOTES:

- 1) SURVEY DATA REFERENCE TO WVA-SFC NORTH ZONE HORIZONTAL (NAD 83-2011) VERTICAL (NAVD 88)
- 2) TOPOGRAPHIC DATA - SURVEY DERIVED (8398) - 2FT. CONTOUR INTERVAL
- 3) TOPOGRAPHIC PLAN BASED ON FIELD RUN SURVEY BY DIEFFENBAUCH & HRITZ, LLC ON AUGUST 12, 2019

LEGEND

| | | |
|--|------|--|
| | 1040 | SURVEYED MAJOR CONTOUR |
| | | SURVEYED MINOR CONTOUR |
| | | ROADWAY |
| | | FENCE LINE |
| | | OVER-HEAD ELECTRIC |
| | | UNDERGROUND ELECTRIC LINE |
| | | GAS LINE |
| | | SILT FENCE |
| | | COMPOST FILTER SOCK (SIZE NOTED IN PLAN) |
| | | DITCH FLOW LINE |
| | | TREE LINE |
| | | POWER POLE |
| | | GUY WIRE |
| | | GAS LINE MARKER |
| | | TELEPHONE BOX |
| | | RISER (SIZE NOTED IN PLAN) |
| | | WATER VALVE |
| | | RIP-RAP |
| | | PADACCESS ROAD |
| | | ASPHALT ENTRANCE |
| | | SAFETY BERM |

ENTRANCE ACCESS
LAT: 39° 22' 29.56" N
LCN: 00° 50' 06.40" W



REFERENCES: UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE SERIES - WEST UNION QUAD

LOCATION MAP
NTS

PROJECT # 19016-030
AUGUST 2019

DIEFFENBAUCH & HRITZ, LLC

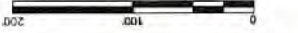
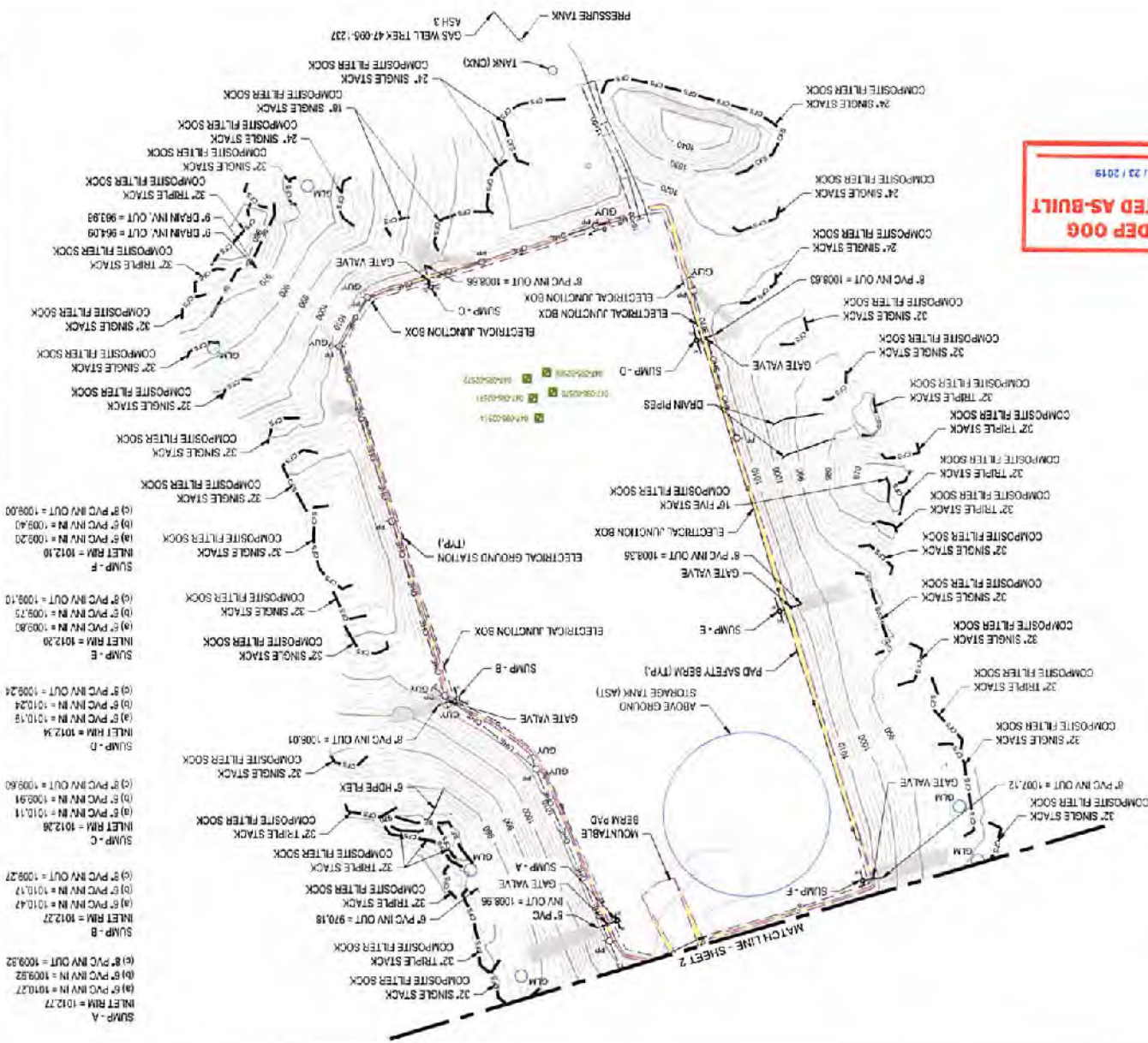
SHEET INDEX

- 1 COVER SHEET
- 2-3 PLAN VIEW
- 4 MAIN ACCESS ROAD PLAN / PROFILE
- 5 SECOND ACCESS ROAD PLAN / PROFILE



| | |
|------------------|---|
| DATE | |
| CLIENT | CNX |
| PROJECT NO. | 19016-030 |
| PROJECT NAME | SHRL38 WELL SITE |
| PROJECT LOCATION | CENTERVILLE DISTRICT, TYLER COUNTY, WEST VIRGINIA |
| DATE | 8/23/2019 |
| BY | HERBERT L. PARSONS III |
| CHECKED BY | HERBERT L. PARSONS III |
| APPROVED BY | HERBERT L. PARSONS III |
| DATE | 8/23/2019 |
| PROJECT NO. | 19016-030 |
| PROJECT NAME | SHRL38 WELL SITE |
| PROJECT LOCATION | CENTERVILLE DISTRICT, TYLER COUNTY, WEST VIRGINIA |
| DATE | 8/23/2019 |
| BY | HERBERT L. PARSONS III |
| CHECKED BY | HERBERT L. PARSONS III |
| APPROVED BY | HERBERT L. PARSONS III |
| DATE | 8/23/2019 |

8 / 23 / 2019
 WJEP 006
 ACCEPTED AS-BUILT



LEGEND

| | |
|--|-------------------------|
| | SURVEYED MARKER CONTOUR |
| | ROADWAY |
| | FENCE LINE |
| | OVERHEAD ELECTRIC |
| | UNDERGROUND ELECTRIC |
| | GAS LINE |
| | SALT FENCE |
| | COMPOSITE FILTER SOCK |
| | DITCH FLOW LINE |
| | TREE LINE |
| | POWER POLE |
| | GAS LINE MARKER |
| | TELEPHONE BOX |
| | RISER |
| | WATER VALVE |
| | RR-RFP |
| | PAVED ACCESS ROAD |
| | ASPHALT ENTRANCE |
| | SAFETY BERMS |

NOTES:

1. SURVEY DATA REFERENCE TO WJEP NORTH ZONE HORIZONTAL (NAD 83-2011) VERTICAL (NAVD 88)
2. TOPOGRAPHIC DATA - SURVEY DERIVED (8388) - 2-17
3. TOPOGRAPHIC PLAN BASED ON FIELD RUN SURVEY BY DEFENBAUGH & HRTZ, LLC ON AUGUST 12, 2019

