



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, September 01, 2017
WELL WORK PERMIT
Horizontal 6A / Fracture

CNX GAS COMPANY LLC
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for SHR3CHS
47-095-02194-00-00

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.

James A. Martin
Chief

Operator's Well Number:
Farm Name: NOBLE ENERGY, INC.
U.S. WELL NUMBER: 47-095-02194-00-00
Horizontal 6A / Fracture
Date Issued: 9/1/2017

Promoting a healthy environment.

09/01/2017

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. 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.
2. 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.
3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
5. 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.
6. 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.

4709502194F

WW-6B
(04/15)

API NO. 47-⁰⁵ - 02194 F
OPERATOR WELL NO. SHR3CHS
Well Pad Name: SHR3

Frac

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 095-Tyler Centerville Shirley
Operator ID County District Quadrangle

2) Operator's Well Number: SHR3CHS Well Pad Name: SHR3

3) Farm Name/Surface Owner: Noble Energy Public Road Access: County Rt.18

4) Elevation, current ground: 751 Elevation, proposed post-construction: 751

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

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No Yes *DMAH 4/5/17*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus 6305-6369 / 64' thick / 4240 psi

8) Proposed Total Vertical Depth: 6339

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,381'

11) Proposed Horizontal Leg Length: 8517.51'

12) Approximate Fresh Water Strata Depths: 342'

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

14) Approximate Saltwater Depths: none Noted for offset

15) Approximate Coal Seam Depths: None

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

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: _____

WW-6B
(04/15)

API NO. 47-⁹⁵ - 02194 F
 OPERATOR WELL NO. SHR3CHS
 Well Pad Name: SHR3

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	H-40	94	40'	40'	CTS
Fresh Water	13 3/8"	NEW	K-55	54.5	463.4'	463.4'	508.58
Coal							
Intermediate	9 5/8"	NEW	HCK-55	36.0	2189.9	2189.9	1014.8
Production	5 1/2"	NEW	P-110	20.0	15,361.1	15,361.1	2822.4
Tubing							
Liners							

Existing

DMAH 4/5/17

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"	0.438	2730		to surface	to surface
Fresh Water	13 3/8"	17.5"	.380	2730		Type 1	1.18
Coal							
Intermediate	9 5/8"	13 3/8"	.352	3520		Class A	1.18
Production	5 1/2"	8.75"	.361	12,640		Class A	1.26
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Well previously drilled by Noble Energy. Submitting permit application to complete hydraulic fracturing operations and produce the well. ✓

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

The completions phase will be multiple stages over the lateral length of the well, stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand water and chemicals. Max Pressure 9,600 PSI, Max Rate 100 BPM ✓

DMH 4/5/17

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 0

22) Area to be disturbed for well pad only, less access road (acres): 0

23) Describe centralizer placement for each casing string:

PREVIOUSLY COMPLETED. From original NOBLE ENERGY submittal "Conductor- No centralizers used. Fresh Water/Surface- Bow spring centralizers on first two joints then every 3rd joint to 100' from surface. Intermediate- Bow spring centralizers every third joint to 100' from surface Production - Rigid bow springs every third joint from KOP to TOC, rigid bow spring every joint to KOP"

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

PREVIOUSLY COMPLETED. From original Noble Energy submittal "Conductor - 1.15% CaCl. Fresh Water - 15.6 ppg Type 1 cement with flake and +2% CaCl, 0.25# lost circ., 30% excess yield =1.18. Intermediate- 15.6 ppg Class A +0.4% Ret, 0.15% Disp, 0.2% anti Foam, 0.125# sk Lost circ. 20% Excess Yield = 1.19 to surface. Production - 14.8 ppg Class A 25:75:0 System +2.6% Cement Extender, 0.7% Fluid Loss Additive, 0.45% high temp retarder, 0.2% friction reducer 10% excess yield=1.27 TOC>=200' above 9.625" shoe. See attached approved variance from WV DEP."

25) Proposed borehole conditioning procedures:

PREVIOUSLY COMPLETED. From original Noble Energy submittal "Conductor - The hole is drilled w/air and casing is run in air. apart from insuring the hole is clean via air circulation at TD, There are no other conditioning procedures. Fresh Water/Surface - The hole is drilled w/air and casing is run in air. Once casing is at setting depth circulate a minimum of one hole volume prior to pumping cement. Intermediate - Once surface casing is set and cemented intermediate hole is drilled either on air or SOBM and filled w/ KCl water once filled w/ KCl water once drilled to TD. The well is conditioned with KCl circulation prior to running casing. Once casing is at setting depth, the well is circulated minimum of one hole volume prior to pumping cement. Production - The hole is drilled with synthetic oil base mud and once at TD the hole is circulated at a maximum allowable drilling pump rate for at least 6X bottoms up. Once on bottom with casing, circulate a minimum of one volume prior to pumping cement.

*Note: Attach additional sheets as needed.

EXISTING

CNX Gas Company LLC
Conventional Operator Notice and Monitoring Plan – Hydraulic Fracturing Activity
SHR3HS Well Pad
Tyler County, West Virginia



Received
Office of Oil & Gas
MAY 04 2017

09/01/2017

Purpose:

The purpose of this hydraulic fracturing monitoring plan is to identify and notify any potentially affected conventional well operators near planned CNX hydraulic fracturing activity.

CNX has evaluated the existing geologic conditions in the area, and the potential for communication between the geologic zone being stimulated by CNX and the zone being produced by the conventional wells exists.

This plan is being implemented as an additional safety measure to be utilized in conjunction with the existing best management practices and the site safety/emergency response plans included for the site.

1. Communications with Conventional Well Operators

CNX has identified all known conventional wells and well operators within five hundred feet (500') of this pad and lateral sections pursuant to WV Code 35 CSR 8(5.11). A list and map of these wells and operators is provided as **Attachment A**.

Upon approval of this plan, CNX will notify operators identified in the referenced attachment, via letter, of the anticipated fracturing schedule associated with this pad. A copy of this letter is included as **Attachment B**, and includes the recommended steps a conventional operator can take to ensure safe and compliant operations.

2. Reporting

CNX will provide information relating to the hydraulic fracturing schedule, any communication with conventional operators, and ongoing monitoring of the work upon request of the OOG or immediately in the event of any discovered abnormalities that create additional risk or concern.

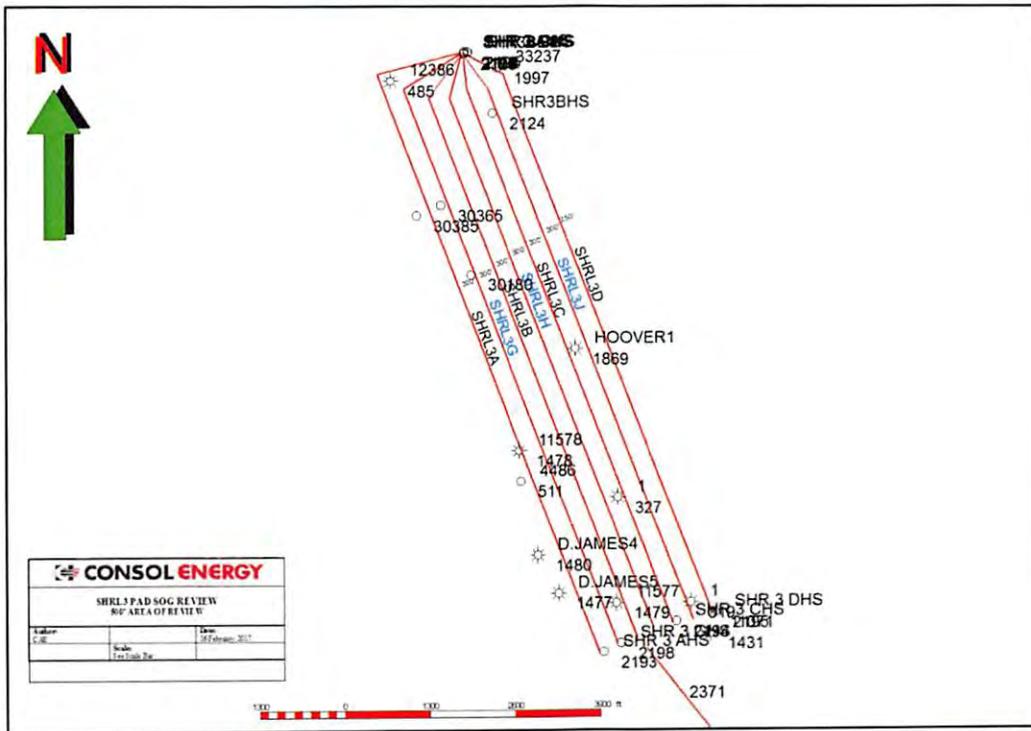
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MAY 04 2017

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**Attachment A:
Map and List of Conventional Operators in the SHR3HS Project Area**

**Received
Office of Oil & Gas
MAY 04 2017**

09/01/2017



API	OPERATOR	WELLNAME	WELL #	LAT	LONG	STATUS	TD	STATUS COMMENTS	DISTANCE FROM LATERAL	PERMIT DATE
4709502112	CONSOL	SHRIDHS	SHRIDHS	39.50942	-80.828748	BH	1580	PRODUCING MARCELLUS LATERAL	750	9/30/1977
4709502371	EQT		518600			GAS	6680	PRODUCING MARCELLUS LATERAL	215	10/25/2016
4709500485	CONSOL	ULLIE MAPLE	12386	39.41302	-80.83716	GAS	8127	PRODUCING BENSON WELL, ALREADY COMMUNICATED WITH SHRL1 PAD FRAC	160	9/30/1977
4709501431	CONSOL	SECKMAN C	11071	39.5869	-80.82007	GAS	5000	PRODUCING BENSON WELL	315	11/28/1990
4709501479	CONSOL	JAMES D	11577	39.59187	-80.825097	GAS	5025	PRODUCING BENSON WELL	100	7/25/1991
4709501478	CONSOL	JAMES D	11578	39.597576	-80.830282	GAS	4880	PRODUCING BENSON WELL	30	7/19/1991
4709500327	ALLIANCE PETROLEUM CORPORATION	SMITH JOHN HEIRS	1	39.5956	-80.825	GAS	3000	PRODUCING BIG INJUN WELL	90	11/1/1961
4709501869	ALLIANCE PETROLEUM CORPORATION	HOOVER MARY BELL ET AL	HOOVER1	39.4018	-80.82725	GAS	2325	PRODUCING BIG INJUN WELL	125	12/1/2005
4709501477	ALLIANCE PETROLEUM CORPORATION	JAMES DEWAYNE H.	D.JAMES5	39.5916	-80.8282	GAS	2185	PRODUCING BIG INJUN WELL	250	7/30/1991
4709501480	ALLIANCE PETROLEUM CORPORATION	JAMES DEWAYNE H.	D.JAMES4	39.5952	-80.8295	GAS	2125	PRODUCING BIG INJUN WELL	330	7/30/1992
4709500319	ALLIANCE PETROLEUM CORPORATION	SECKMAN MARY	1	39.5912	-80.8211	GAS	1855	PRODUCING BIG INJUN WELL	235	8/1/1961
4709503385	AMERICAN OIL AND DEVELOPMENT*	J.M. SMITH 3		39.407378	-80.835764	ABD/OIL W/GAS SHOW	1825	ABANDONED BIG INJUN WELL	210	NOT AVAILABLE
4709500511	EQUITRANS	JAMES DEWAYNE	4486	39.5963	-80.8302	PLG	1798	PLUGGED BIG INJUN WELL (1991)	175	11/2/1916
4709501997	CONSOL	DANIEL AND SUZANNE WEEKLEY	33237	39.415576	-80.831404	CAN		NEVER DRILLED	150	11/13/2008
4709501280	AMERICAN OIL AND DEVELOPMENT*	J.M. SMITH 1		39.40491	-80.832842	INACTIVE		NOT AVAILABLE	255	NOT AVAILABLE
4709503365	AMERICAN OIL AND DEVELOPMENT*	J.M. SMITH 3		39.407813	-80.834485	INACTIVE		NOT AVAILABLE	200	NOT AVAILABLE

*The operator of the wells highlighted in yellow was unable to be located. At the request of the WVDEP, a field visit was conducted by CNX in an attempt to locate these wells to determine if monitoring was a possibility. The review was completed on 4/24/2017 with none of these wells being located. CNX believes that based on the field investigation and correspondence with the state, the wells have either been plugged or otherwise do not exist.

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Office of Oil & Gas
MAY 04 2017

09/01/2017

**Attachment B:
Conventional Operator Notice Letter - Example**

**Received
Office of Oil & Gas
MAY 04 2017**

09/01/2017



CONSOL Energy Inc.

CNX Center
1000 CONSOL Energy Drive
Canonsburg, PA 15317-6506

phone: (724) 485 – 4040
e-mail: PCR@consolenergy.com
web: www.consolenergy.com

CNX GAS PRODUCTION TEAM

[Conventional Well Operator]
[Address]
[State]

Re: Tyler County Hydraulic Fracturing Notice

Dear Sir or Madam,

CNX Gas Company LLC (CNX) has developed a Marcellus pad SHR3HS located in Tyler County, West Virginia. Through CNX's evaluation pursuant to WV Code 35 CSR 8(5.11), you have been identified as the owner or operator of a well within a 500' radius of the surface location or lateral section of the wellbore. Due to the apparent presence of unique geological conditions, communication between CNX hydraulic fracturing operations and the identified well is a possibility. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in monitoring for changes that would indicate communication between your well(s) and our planned operation.

CNX anticipates conducting hydraulic fracturing activity at the SHR3HS Pad beginning as early as 3rd Quarter 2017 (July-September) and potentially continuing through 4th Quarter 2017 (October-December). Plats for each well being hydraulically fractured on this pad are included for your reference.

We recommend that conventional operators conduct the following activities before, during, and after fracturing operations.

- Inspect surface equipment prior to fracturing, to establish mechanical integrity and confirm well conditions.
- Monitor wells during and after fracturing and monitor for abnormal increases in fluid, gas, or pressure.
- Inspect and upgrade master valves or other necessary equipment for wellhead integrity as you see fit.
- Notify the OOG and CNX if any changes in fluid, gas production, pressure, or other conditions that cause abnormal risk or concern.

Please feel free to contact CNX's Production Control Room at 724-485-4040 (staffed 24/7) with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0499.

Sincerely,
CNX Production

Received
Office of Oil & Gas
MAY 04 2017

09/01/2017

95-02194
AOR



CONSOL Energy Inc.
CNX Center
1000 CONSOL Energy Drive
Canonsburg, PA 15317-6506

phone: (724) 485-4040
e-mail: PCR@consolenergy.com
web: www.consolenergy.com

CNX GAS PRODUCTION TEAM

ALLIANCE PETROLEUM CORPORATION
4150 BELDEN VILLAGE AVE NW, SUITE 410
CANTON, OH 44718-2553

Re: Tyler County Hydraulic Fracturing Notice

Dear Sir or Madam,

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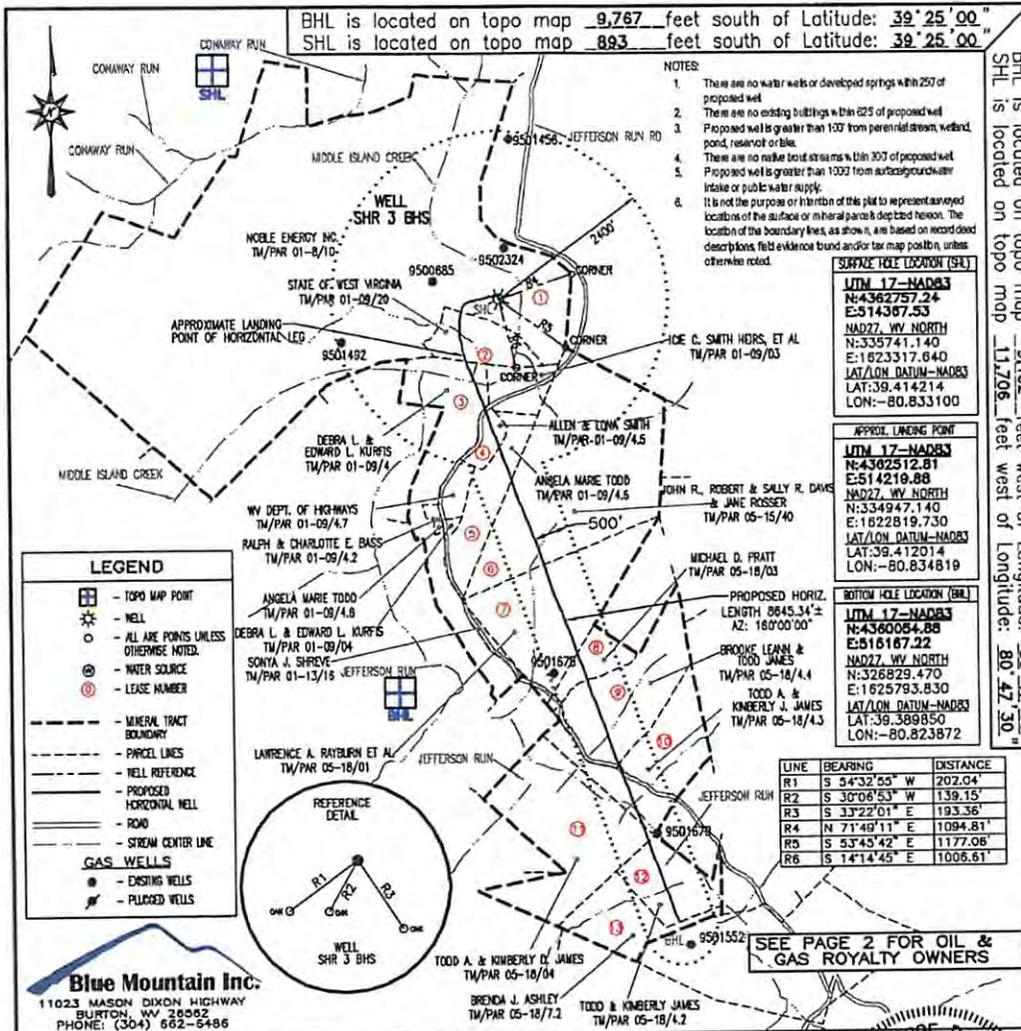
Please feel free to contact CNX's Production Control Room at 724-485-4040 (staffed 24/7) with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0499.

Sincerely,
CNX Production

Received
Office of Oil & Gas

MAY 04 2017

95-02194
A OR



BHL is located on topo map 9,102 feet west of Longitude: 80° 47' 30"
SHL is located on topo map 11,706 feet west of Longitude: 80° 47' 30"

SEE PAGE 2 FOR OIL & GAS ROYALTY OWNERS

FILE #: SHR 3 BHS
DRAWING #: SHR 3 BHS
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE: 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



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



DATE: APRIL 3, 2017
OPERATOR'S WELL #: SHR 3 BHS
API WELL #: 47 95
STATE COUNTY PERMIT

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

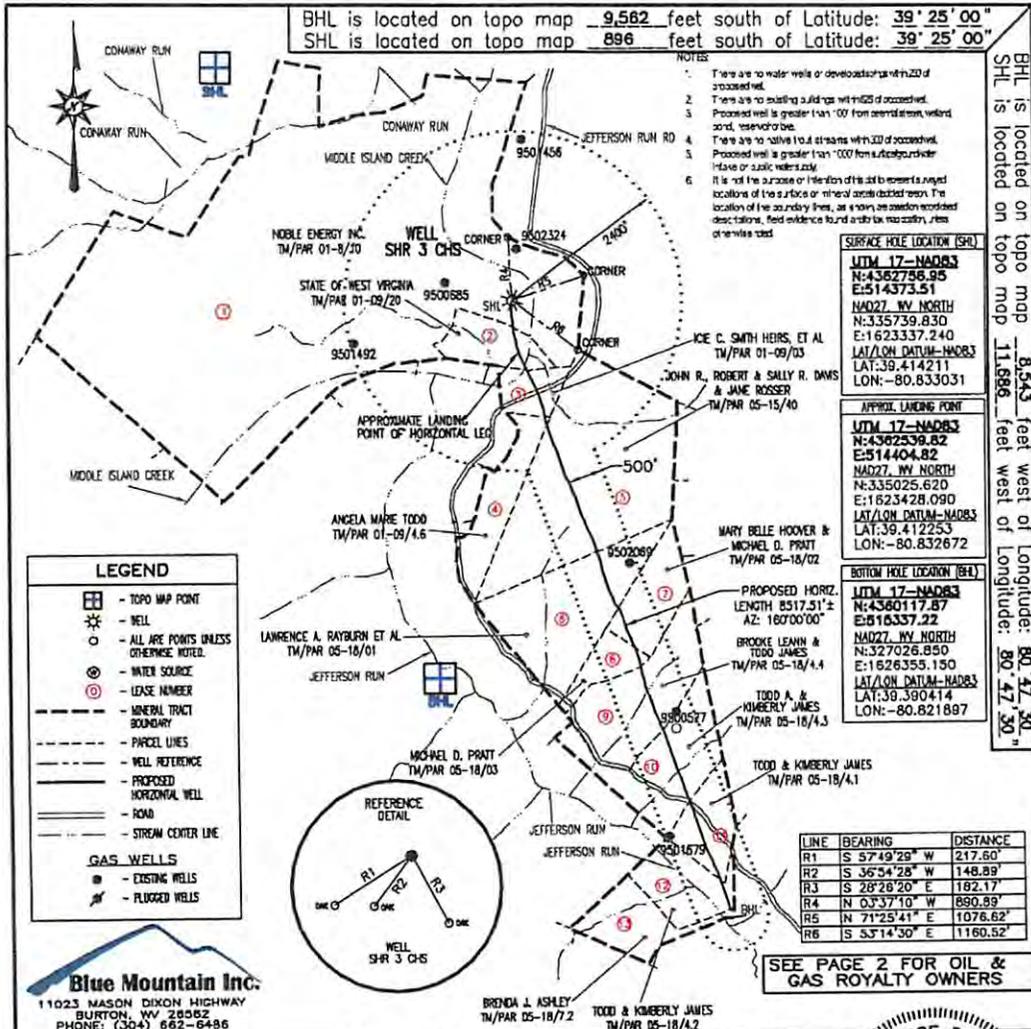
WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 751'±
COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: SHIRLEY, WV 7.5'
SURFACE OWNER: NOBLE ENERGY INC. ACREAGE: 542.81±
OIL & GAS ROYALTY OWNER: DAVID H. WEEKLEY & LINDA C. WEEKLEY, DANIEL A. WEEKLEY & SUZANNE L. WEEKLEY, AMP FUND III, LP ACREAGE: 1113.288±

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: 6,337'± TMD: 15,583'±
WELL OPERATOR: CNX GAS COMPANY LLC DESIGNATED AGENT: CHRIS TURNER
Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DR.
City: CANONSBURG State: PA Zip Code: 15317 City: JANE LEW State: WV Zip Code: 26378

Received
Office of Oil & Gas
MAY 04 2017

95-02194
AOR



Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26012
PHONE: (304) 662-6486

FILE #: SHR 3 CHS
DRAWING #: SHR 3 CHS
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: APRIL 3, 2017
OPERATOR'S WELL #: SHR 3 CHS
API WELL #: 47 95
STATE COUNTY PERMIT

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

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 751' ±

COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: SHIRLEY, WV 7.5'

SURFACE OWNER: NOBLE ENERGY INC. ACREAGE: 542.81 ±
DAVID H. WEEKLEY & LINDA C. WEEKLEY

OIL & GAS ROYALTY OWNER: DANIEL A. WEEKLEY & SUZANNE L. WEEKLEY, AMP FUND III, LP ACREAGE: 1009.744 ±

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

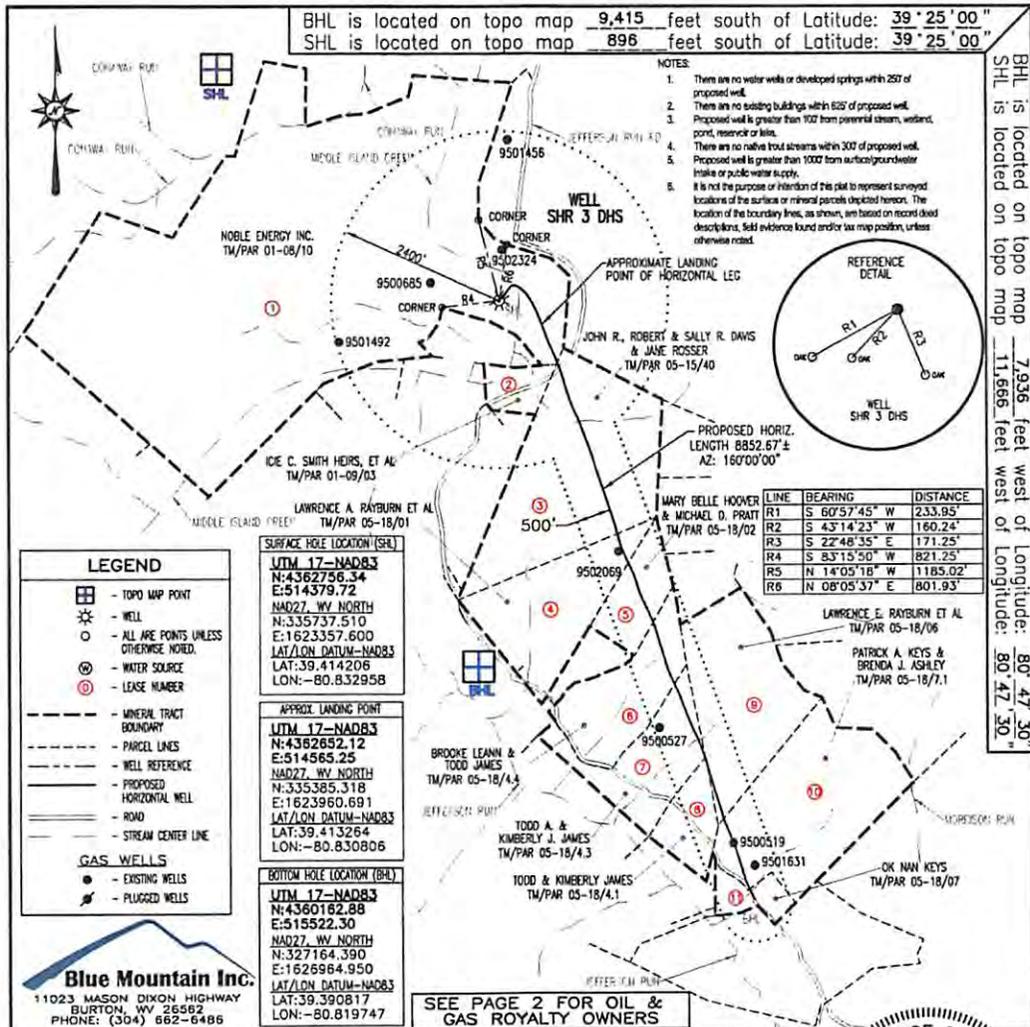
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,339' ± TMD: 15,381' ±

WELL OPERATOR: CNX GAS COMPANY LLC DESIGNATED AGENT: CHRIS TURNER
Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DR.
City: CANONSBURG State: PA Zip Code: 15317 City: JANE LEW State: WV Zip Code: 26378

Received
Office of Oil & Gas
MAY 04 2017

95-02194

AOR



BHL is located on topo map 7,936 feet west of Longitude: 80° 47' 30" SHL is located on topo map 11,666 feet west of Longitude: 80 47 30"

FILE #: SHR 3 DHS
 DRAWING #: SHR 3 DHS
 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: MAY 1, 2017
 OPERATOR'S WELL #: SHR 3 DHS
 API WELL #: 47 95
 STATE COUNTY PERMIT

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

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 751' ±
 COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: SHIRLEY, WV 7.5'
 SURFACE OWNER: NOBLE ENERGY INC. ACREAGE: 542.81 ±
 OIL & GAS ROYALTY OWNER: DAVID H. WEEKLEY & LINDA C. WEEKLEY, DANIEL A. WEEKLEY & SUZANNE L. WEEKLEY, AMP FUND III, LP ACREAGE: 1093.313 ±

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: 6,338' ± TD: 19,610' ±
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT CHRIS TURNER
 Address 1000 CONSOL ENERGY DRIVE Address 1 DOMINION DR.
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

Received
 Office of Oil & Gas

MAY 04 2017

09/01/2017

WW-9
(4/16)

API Number 47 - 85 - 02190 F
Operator's Well No. SHR36HS

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 Shiley

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 utilization of a pit

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
 - Underground Injection (UIC Permit Number _____)
 - Reuse (at API Number _____ at next anticipated wells _____)
 - Off Site Disposal (Supply form WW-9 for disposal location)
 - Other (Explain No drilling activity, unused frac water will be reused at other wells in the area.)
- DMAH 4/5/17*

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA No Drilling

-If oil based, what type? Synthetic, petroleum, etc. NA No Drilling

Additives to be used in drilling medium? NA No Drilling

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA No Drilling

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? NA

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.

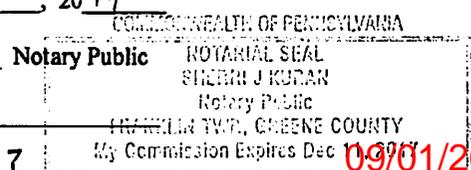
Company Official Signature *Matt Hanley*

Company Official (Typed Name) Matt Hanley

Company Official Title Manager - Permitting

Subscribed and sworn before me this 6th day of April, 2017

Sherril Kuran



My commission expires 12-1-17

WVDEP 00G JUL 28 2017

09/01/2017

95-02194F

Form WW-9

Operator's Well No. SHR3AHS

CNX GAS COMPANY LLC

Proposed Revegetation Treatment: Acres Disturbed 0 Prevegetation pH 6.0

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equal

Fertilizer amount 500 lbs/acre

Mulch hay or straw at 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

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: Derek M. Haught

Comments: Noble Energy's Original WW-9 attached. Will follow procedures of what was previously permitted.

Title: Oil & Gas Inspector Date: 4/5/17

Field Reviewed? Yes No

WVDEP OOG JUL 28 2017 09/01/2017

9502194F

Form WW-9

Operator's Well No. SHR3BHS

Noble Energy, Inc.

Proposed Revegetation Treatment: Acres Disturbed 8.43 Prevegetation pH 6.0

Lime 2 to 3 Tons/acre or to correct to pH _____

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Hay or Straw at 2 Tons/acre

Seed Mixtures

Seed Type	Area I		Seed Type	Area II	
		lbs/acre			lbs/acre
Tall Fescue		40	Tall Fescue		40
Ladino Clover		5	Ladino Clover		5

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *David ...*

Comments: *provide & mulch all cut areas - maintain all*
OS through process

Title: Oil and Gas Inspector Date: 7-16-13

Field Reviewed? () Yes () No

WVDEP OOG JUL 28 2017

09/01/2017



Safety Plan for SHR3 Well Pad

Wells SHR3AHS, SHR3BHS, SHR3CHS, SHR3DHS

CNX Gas Company LLC



DWAH 4/5/17

BHL is located on topo map 9,562 feet south of Latitude: 39° 25' 00"
 SHL is located on topo map 896 feet south of Latitude: 39° 25' 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.

BHL is located on topo map 8,543 feet west of Longitude: 80° 47' 30"
 SHL is located on topo map 11,686 feet west of Longitude: 80° 47' 30"

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
 N:4362756.95
 E:514373.51
 NAD27, WV NORTH
 N:335739.830
 E:1623337.240
 LAT/LON DATUM-NAD83
 LAT:39.414211
 LON:-80.833031

APPROX. LANDING POINT

UTM 17-NAD83
 N:4362539.82
 E:514404.82
 NAD27, WV NORTH
 N:335025.620
 E:1623428.090
 LAT/LON DATUM-NAD83
 LAT:39.412253
 LON:-80.832672

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
 N:4360117.87
 E:515337.22
 NAD27, WV NORTH
 N:327026.850
 E:1626355.150
 LAT/LON DATUM-NAD83
 LAT:39.390414
 LON:-80.821897

LINE	BEARING	DISTANCE
R1	S 57°49'29" W	217.60'
R2	S 36°54'28" W	148.89'
R3	S 28°26'20" E	182.17'
R4	N 03°37'10" W	890.89'
R5	N 71°25'41" E	1076.62'
R6	S 53°14'30" E	1160.52'

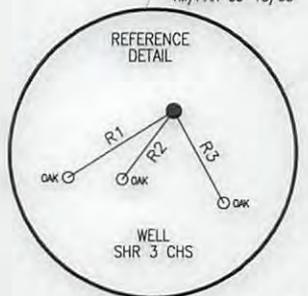
SEE PAGE 2 FOR OIL & GAS ROYALTY OWNERS

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- WATER SOURCE
- LEASE NUMBER
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS



Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

BRENDA J. ASHLEY
 TM/PAR 05-18/7.2
 TODD & KIMBERLY JAMES
 TM/PAR 05-18/4.2

FILE #: SHR 3 CHS
 DRAWING #: SHR 3 CHS
 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: *[Signature]*
 R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 PLACE SEAL HERE

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



DATE: APRIL 3, 2017
 OPERATOR'S WELL #: SHR 3 CHS
 API WELL #: 47 95 02194 F
 STATE COUNTY PERMIT
 146A

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

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 751±
 COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: SHIRLEY, WV 7.5'
 SURFACE OWNER: NOBLE ENERGY INC. ACREAGE: 542.81±
 OIL & GAS ROYALTY OWNER: DANIEL A. WEEKLEY & SUZANNE L. WEEKLEY, AMP FUND III, LP ACREAGE: 1009.744±

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: 6,339± TMD: 15,381±
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT CHRIS TURNER
 Address 1000 CONSOL ENERGY DRIVE Address 1 DOMINION DR.
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

09/01/2017

SHR 3 CHS

PAGE 2 OF 2

TRACT	PARCEL #	OIL & GAS ROYALTY OWNER
1	1-8-10	DAVID H. WEEKLEY & LINDA C. WEEKLEY
		DANIEL A. WEEKLEY & SUZANNE L. WEEKLEY
		AMP FUND III, LP
2	1-9-20	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS
3	1-9-3	ROSEMARY HAUGHT, ET AL
4	1-9-4.6	WALTON SMITH & KAY SMITH ET AL
5	5-15-40	JOSEPH CLIFFORD STRATON, ET AL
6	5-18-1	DONALD SECKMAN
7	5-18-2	MICHAEL PRATT, ET AL
8	5-18-3	MICHAEL PRATT, ET AL
9	5-18-4.4	TODD A. JAMES, ET AL
10	5-18-4.3	TODD A. JAMES, ET AL
11	5-18-4.1	TODD A. JAMES, ET AL
12	5-18-4.2	TODD A. JAMES, ET AL
13	5-18-7.2	OK NAN KEYS, ET AL

APRIL 3, 2017

SURFACE HOLE LOCATION (SHL)
<u>UTM 17-NAD83</u>
N:4362756.95
E:514373.51
<u>NAD27, WV NORTH</u>
N:335739.830
E:1623337.240
<u>LAT/LON DATUM-NAD83</u>
LAT:39.414211
LON:-80.833031

APPROX. LANDING POINT
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LON:-80.832672

BOTTOM HOLE LOCATION (BHL)
<u>UTM 17-NAD83</u>
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E:515337.22
<u>NAD27, WV NORTH</u>
N:327026.850
E:1626355.150
<u>LAT/LON DATUM-NAD83</u>
LAT:39.390414
LON:-80.821897

WVDEP OOG JUL 28 2017
09/01/2017

WVDEP OOG

WW-6A1
(5/13)

Operator's Well No. SHR3CHS

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

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

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

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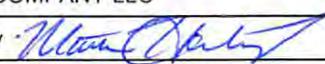
See Attached

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

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

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

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

Well Operator: CNX GAS COMPANY LLC
 By: Matt Hanley 
 Its: Manager - Permitting

Attachment - Form WW-6A-1 for 5HR3CHS

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
1	1-8-10	279251000	David H. Weekley and Linda C. Weekley, h/w Daniel A. Weekley and Suzanne L. Weekley, h/w Antero Resources Corporation AMP Fund III, LP Noble Energy, Inc.	Antero Resources Corporation Antero Resources Corporation CNX Gas Company LLC and Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Assignment Not less than 1/8 Assignment	507/246 507/241 534/460 527/465 534/483

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
2	1-9-20	279251000	West Virginia Department of Transportation, Division of Highways	CNX Gas Company LLC	Not less than 1/8	571/678

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
Middle Island Creek	N/A	N/A	State of West Virginia, Department of Commerce, Division of Natural Resources	CNX Gas Company LLC	N/A - License Agreement	Unrecorded See License Agreement LI-17-VI/48-1033

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
3	1-9-3	238902000	Estella Goodfellow Rosemary Haught Allen Smith Cunningham Energy LLC Antero Resources Corporation Antero Resources Corporation Noble Energy, Inc. Noble Energy, Inc. Donald C. Kesterson Noble Energy, Inc. Sandra L. Lehman Kenneth R. Mason and Jennifer L. Mason, h/w Noble Energy, Inc. Noble Energy, Inc. Allen E. Smith and Lona M. Smith, h/w Noble Energy, Inc. Noble Energy, Inc. Kevin and Michelle Higgins, h/w CNX Gas Company LLC Noble Energy, Inc. Shannon D. Taylor and Michael Taylor, h/w Noble Energy, Inc. Karen Lambert Noble Energy, Inc.	Cunningham Energy LLC Cunningham Energy LLC Cunningham Energy LLC Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment Corrective Assignment Assignment (Haught) Assignment (Haught and Goodfellow) Not less than 1/8 Assignment Not less than 1/8 Not less than 1/8 Assignment Corrective Assignment Not less than 1/8 Assignment Assignment Not less than 1/8 Assignment Assignment Not less than 1/8 Assignment Assignment	383/779 383/582 384/309 407/356 422/517 534/455 550/227 550/273 426/395 465/341 429/295 429/322 482/189 549/548 453/626 486/820 549/529 412/465 Unrecorded 550/273 457/238 493/223 444/61 473/216

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
4	1-9-4.6	243943000	Walton Smith and Stella Smith, h/w Manna Oil & Gas Company Justin L. Henderson, dba Anvil Oil & Gas Company Anvil 1990-B Limited Partnership Drilling Appalachian Corporation Dominion Appalachian Development Properties, L.L.C., et al. CNX Gas Company LLC Noble Energy, Inc.	Manna Oil & Gas Company Anvil Oil & Gas Company Anvil 1990-B Limited Partnership Drilling Appalachian Corporation Dominion Appalachian Development, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Merger Assignment Assignment	266/258 Unrecorded 286/534 326/887 328/119 384/191 388/286 550/273

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
5	5-15-40	266756000	Sally R. Davis John R. Davis Jane Davis Rosser Chesapeake Appalachia L.L.C. Chesapeake Appalachia L.L.C. Chesapeake Appalachia L.L.C.	Chesapeake Appalachia L.L.C. Chesapeake Appalachia L.L.C. Chesapeake Appalachia L.L.C. CNX Gas Company LLC CNX Gas Company LLC SWN Production Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Farmout First Farmout Extension Agreement Assignment	374/140 374/742 374/751 Unrecorded Unrecorded 465/463

SWN Production Company LLC	CNX Gas Company LLC & Noble Energy, Inc.	Second Farmout Extension Agreement	Unrecorded
Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
SWN Production Company LLC	CNX Gas Company LLC	Third Farmout Extension Agreement	Unrecorded
Alberta L. Clegg	Noble Energy, Inc.	Not less than 1/8	429/325
Edna M. Wood	Noble Energy, Inc.	Not less than 1/8	453/531
Kenneth E. Keith and Kelly M. Keith, h/w	Noble Energy, Inc.	Not less than 1/8	453/525
Brian T. Keith	Noble Energy, Inc.	Not less than 1/8	453/529
Gary M. Keith	Noble Energy, Inc.	Not less than 1/8	453/543
Birk S. Stathers, Jr.	Noble Energy, Inc.	Not less than 1/8	449/533
Joseph C. Straton	Noble Energy, Inc.	Not less than 1/8	453/539
James Hess	Noble Energy, Inc.	Not less than 1/8	419/132
Terri Evans	Noble Energy, Inc.	Not less than 1/8	419/134
John W. Straton, Jr.	Noble Energy, Inc.	Not less than 1/8	457/236
Melissa K. Dunstan	Noble Energy, Inc.	Not less than 1/8	457/240
Noble Energy, Inc.	CNX Gas Company LLC	Assignment (Clegg)	482/189
Noble Energy, Inc.	CNX Gas Company LLC	Assignment (Wood, K. Keith, B. Keith, G. Keith, J. Straton)	549/529
Noble Energy, Inc.	CNX Gas Company LLC	Assignment (Stathers, Jr.)	473/216
Noble Energy, Inc.	CNX Gas Company LLC	Assignment (Hess, Evans)	465/341
Noble Energy, Inc.	CNX Gas Company LLC	Assignment (Straton, Jr. and Dunstan)	499/447
Allen W. Crummett	Noble Energy, Inc.	Not less than 1/8	455/557
Daniel D. Crummett and Elizabeth S. Crummet Trust	Noble Energy, Inc.	Not less than 1/8	453/629
Noble Energy, Inc.	CNX Gas Company LLC	Assignment (A. Crummett and D. Crummett)	549/529

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title</u> <u>Opinion QLS</u> #	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
6	5-18-1	108468000	Donald L. Seckman and Dora Olive Seckman, h/w Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment	417/162 482/189

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title</u> <u>Opinion QLS</u> #	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
7	5-18-2	241578000	Mary Belle Hoover Michael D. Pratt and Diana M. Pratt, h/w Drilling Appalachian Corporation Antero Resources Corporation Noble Energy, Inc.	Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Assignment Assignment	332/365 348/325 391/416 422/517 550/273

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title</u> <u>Opinion QLS</u> #	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
8	5-18-3	108353000	Michael D. Pratt and Diana M. Pratt, h/w Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Corporation Noble Energy, Inc.	Drilling Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment Corrective Assignment Assignment Assignment	348/325 391/416 421/130 422/517 550/273
			Michael D. Pratt and Diana M. Pratt, h/w CNX Gas Company LLC Noble Energy, Inc.	CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment Assignment	409/239 447/738 550/273

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title</u> <u>Opinion QLS</u> #	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
9, 10, 11, 12	5-18-4.4 5-18-4.3 5-18-4.1 5-18-4.2	108467000	John M. Smith and Cordelia A. Smith, h/w Pittsburgh & West Virginia Gas Company Equitable Gas Company, a division of Equitable Resources Inc. Equitrans, Inc. Drilling Appalachian Corporation Noble Energy, Inc. Equitrans, L. P., successor to Equitrans, Inc. CNX Gas Company LLC EQT Production Company EQT Production Company EQT Production Company EQT Production Company Noble Energy, Inc.	Pittsburgh & West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Drilling Appalachian Corporation Dominion Appalachian Development Properties, I CNX Gas Company LLC EQT Production Company Noble Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Assignment Assignment Farmout Assignment Merger Assignment Assignment Assignment Assignment Assignment Assignment Assignment	78/315 132/445 274/471 290/677 322/190 384/191 397/440 409/657 471/826 471/835 472/1 471/10 550/273

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title</u> <u>Opinion QLS</u> #	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
13	5-18-7.2	257270000	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain	J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope	Not less than 1/8 Assignment Assignment Assignment	158/214 158/235 158/439 159/377

Duncan Sartain	Douglas A. Williams	Assignment	158/459
Douglas A. Williams	W. Truett Smith, Frank Rose and George S. Finley	Assignment	158/429
Douglas A. Williams	Walter F. Tucker	Assignment	158/460
Douglas A. Williams	Joe H. Foy	Assignment	158/478
Douglas A. Williams	Archie Bean	Assignment	158/479
Douglas A. Williams	R.C. Crabb	Assignment	159/326
Douglas A. Williams	Marvin Hanz	Assignment	158/577
W. Truett Smith, Frank Rose and George S. Finley	W.E. Pope	Assignment	216/304
W. Truett Smith, Frank Rose and George S. Finley	W.E. Pope	Assignment	216/307
W.F. Tucker	W.E. Pope	Assignment	163/216
Joe H. Foy	W.E. Pope	Assignment	216/303
Archie Bean	W.E. Pope	Assignment	216/306
W.E. Pope	Judith A. Pope, as Executrix	Recital in Assignment	311/655
Estate of W.E. Pope, acting through Independent Executrix Judith A. Pope	Drilling Appalachian Corporation	Assignment	311/655
R.C. Crabb	Southwest Savings and Loan Association	Assignment	176/264
Southwest Savings and Loan Association	Hugh Spencer	Assignment	Unrecorded
Spencer Enterprises, by Hugh Spencer, owner	Drilling Appalachian Corporation	Assignment	315/466
Mary Hanz	Drilling Appalachian Corporation	Assignment	313/243
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	391/416
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Corrective Assignment	421/130
Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273

WVDEP OOG JUL 28 2017

09/01/2017



Matthew Hanley
Manager – Gas Permitting
CONSOL Energy Inc.
1000 CONSOL Energy Drive
Canonsburg, PA 15317

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

RE: Road Letter – SHR 3 Well Pad Rework 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.

Should you have any questions or need additional information, please do not hesitate to contact me at matthanley@consolenergy.com or 724-485-3011.

Sincerely,

A handwritten signature in blue ink that reads 'Matthew Hanley'.

Matthew Hanley
CNX Gas Company LLC

WVDEP OOG JUL 28 2017

09/01/2017

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

Date of Notice Certification: 7-27-17

API No. 47- 95 - 02194 F
Operator's Well No. SHR3CHS
Well Pad Name: SHR3

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	Eastings:	<u>514245.726</u>
County:	<u>095-Tyler</u>		Northing:	<u>4362847.122</u>
District:	<u>Centerville</u>	Public Road Access:		<u>County Rt 18</u>
Quadrangle:	<u>Shirley</u>	Generally used farm name:		<u>Noble Energy, Inc</u>
Watershed:	<u>Headwaters 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 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="text-align: center;">NO DRILLING</p> <p><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>
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Required Attachments:

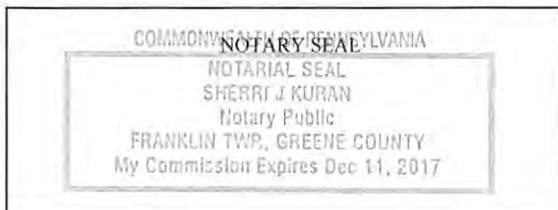
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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 Matt Hanley, 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: CNX GAS COMPANY LLC
By: Matt Hanley 
Its: Manager - Permitting
Telephone: 724-485-3011

Address: 1000 Consol Energy Dr
Canonsburg, PA 15317
Facsimile: _____
Email: Matthanley@consolenergy.com



Subscribed and sworn before me this 6th day of April 2017.
Sherril J. Kuran Notary Public
My Commission Expires 12.11.17

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 deprivacyofficer@wv.gov.

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: 7-27-17 **Date Permit Application Filed:** 7-27-17

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: Noble Energy, Inc
Address: 1000 Noble Energy Drive
Canonsburg, PA 15317

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: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Allen W. Seckman
Address: 824 Jefferson Run Rd.
Alma, WV 26320

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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: 7-27-17 Date Permit Application Filed: 7-27-17

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: Noble Energy, Inc
 Address: 1000 Noble Energy Drive
 Canonsburg, PA 15317
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

COAL OPERATOR
 Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
 Name: _____
 Address: _____
 Name: _____
 Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 Name: Donald L & Dora O Seckman
 Address: 705 Jefferson Run Rd.
 Alma, WV 26320

SURFACE OWNER(s) (Impoundments or Pits)
 Name: _____
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 Name: _____
 Address: _____

*Please attach additional forms if necessary

WVDEP OOG JUL 28 2017

09/01/2017

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: 7-27-17 **Date Permit Application Filed:** 7-27-17

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: Noble Energy, Inc
Address: 1000 Noble Energy Drive
Canonsburg, PA 15317

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: _____
Address: _____

COAL OPERATOR

Name: _____
Address: _____

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

Name: WV Department of Highways
Address: 1 DOT Drive
Moundsville WV, 26041

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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

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.**

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.

WW-6A
(8-13)

API NO. 47- 95 - 02194 F
OPERATOR WELL NO. SHR3CHS
Well Pad Name: SHR3

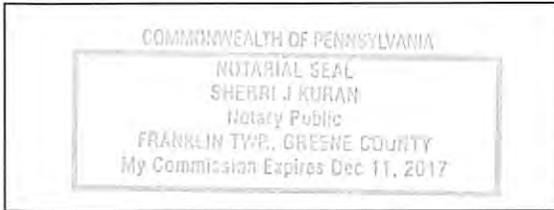
Notice is hereby given by:

Well Operator: CNX GAS COMPANY LLC 
Telephone: 724-485-3011
Email: MattHanley@consolenergy.com

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

Oil and Gas Privacy Notice:

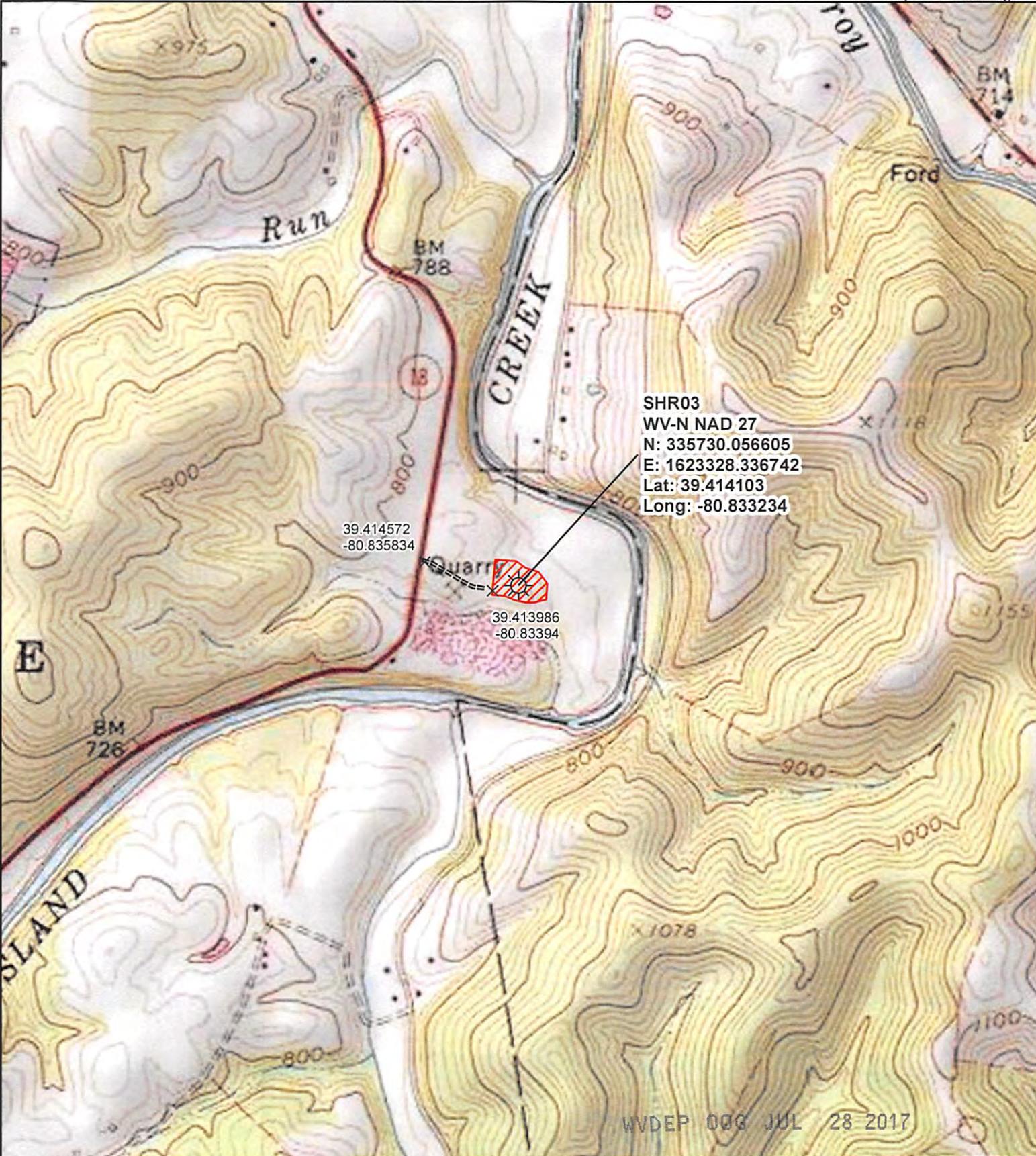
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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



Subscribed and sworn before me this 6th day of April, 2017.
Sherri J Kuram Notary Public
My Commission Expires 12-11-17

WVDEP OOG JUL 28 2017

09/01/2017



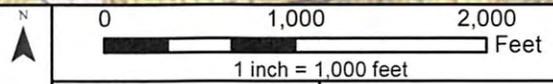
SHR03
 WV-N NAD 27
 N: 335730.056605
 E: 1623328.336742
 Lat: 39.414103
 Long: -80.833234

39.414572
 -80.835834

39.413986
 -80.83394

WVDEP OGG JUL 28 2017

- Legend**
- × Access Points
 - ☀ Well Site
 - === Access Road
 - ▨ Well Pad

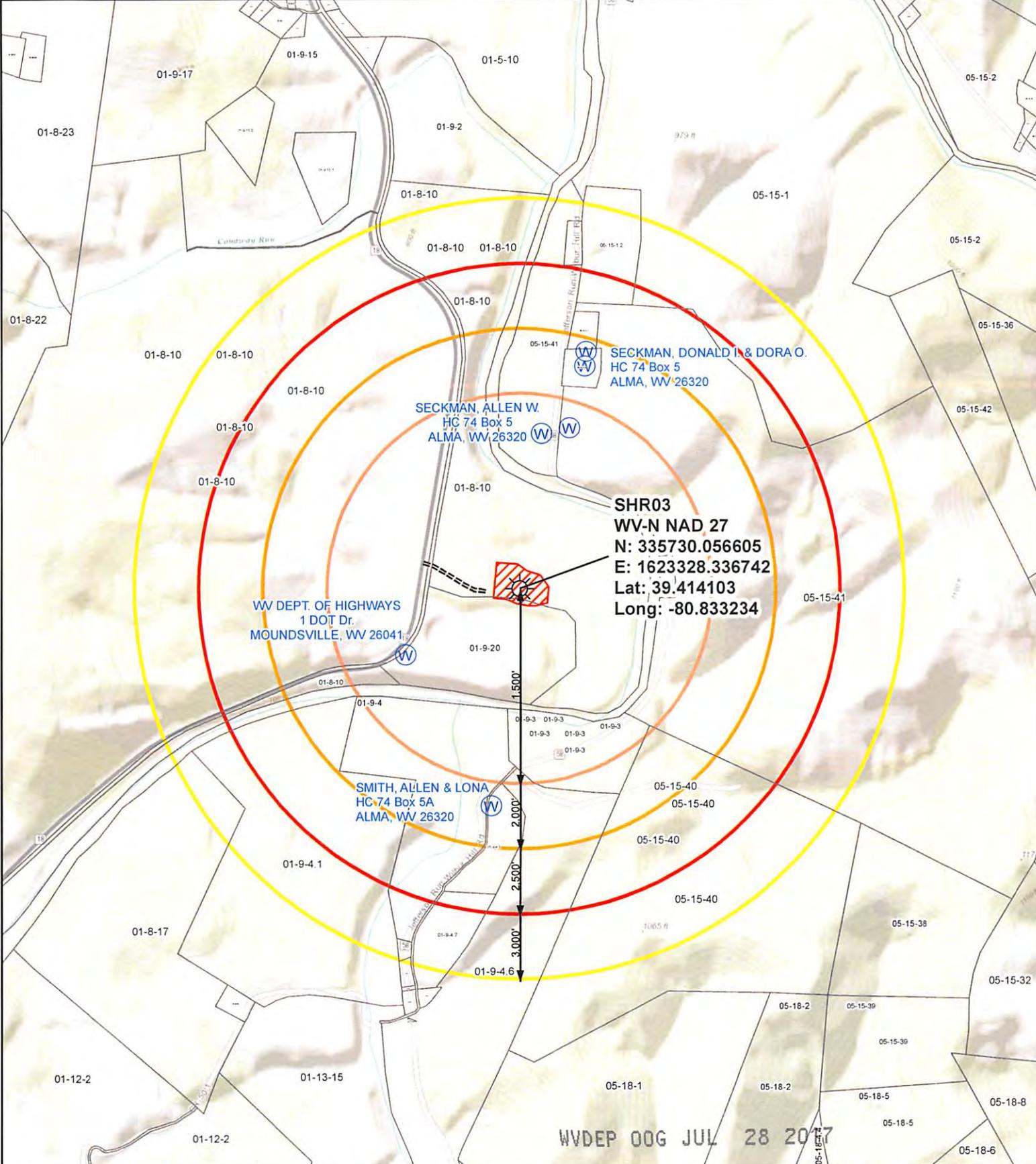


CONSOL ENERGY
 CNX Center, Canonsburg, PA

Original Date: 2/1/2017	Prepared By: Julie Long
Revision Date: 2/1/2017	Approved By: Ray Hoon

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 © Copyright CNX Land Resources Inc. 2011

SHR03
 Topo Well Map
 09/01/2017



Legend Water Wells Well Site Access Road Well Pad Surface Parcel	Buffer Distance 1500 ft 2000 ft 2500 ft 3000 ft	 1 inch = 1,000 feet		 CNX Center, Canonsburg, PA
		Original Date: 2/1/2017	Prepared By: Julie Long	
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				SHR03 Water Purveyor Map 09/01/2017

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: 7-27-17 **Date Permit Application Filed:** 7-27-17

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

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

Name: <u>Noble Energy, Inc</u>	Name: _____
Address: <u>1000 Noble Energy Drive</u>	Address: _____
<small>Canonsburg, PA 15317</small>	

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>514245.726</u>	
County: <u>095-Tyler</u>		Northing: <u>4362847.122</u>	
District: <u>Centerville</u>	Public Road Access: _____	County Rt. 18	
Quadrangle: <u>Stirley</u>	Generally used farm name: _____	Noble Energy, Inc	
Watershed: <u>Headwaters 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 Dr</u>
Telephone: <u>724-485-3011</u>	<u>Canonsburg, PA 15317</u>
Email: <u>Matthanley@consolenergy.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.

95-02194F



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Jim Justice
Governor

Thomas J. Smith, P. E.
Secretary of Transportation/
Commissioner of Highways

February 28, 2017

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-3 Pad, Tyler County
SHR-3 Well Site 47-095-02194.

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2013-0420 for the subject site to CNX Gas Company LLC, for access to the State Road for the well site located off of WV Route 18 in Tyler County.

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

Very Truly Yours,

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

Cc: Ray Hoon
CNX Gas Company LLC
CH, OM, D-6
File

WVDEP OOG JUL 28 2017

Section V – 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

WVDEP OOG JUL 28 2017

09/01/2017



LOCATION MAP
NOT TO SCALE



NOBLE ENERGY, INC.
333 TECHNOLOGY DRIVE, SUITE 116
CANONSBURG, PA 15317
TEL: (724) 820-3000

SHR3 WELL SITE

WELL SITE LOCATION

NAD 83 - LAT: N 39°24'50.920"; LONG: W 80°49'59.400"
NAD 27 - LAT: N 39°24'51.210"; LONG: W 80°49'58.780"

ENTRANCE LOCATION

NAD 83 - LAT: N 39°24'52.490"; LONG: W 80°50'09.120"
NAD 27 - LAT: N 39°24'52.780"; LONG: W 80°50'08.500"

PROPERTY OWNERS

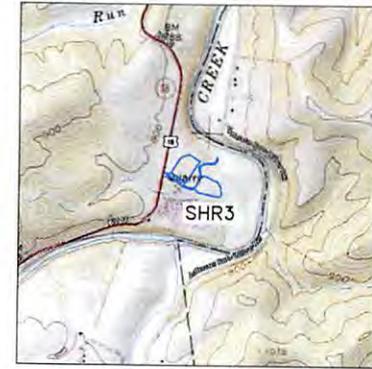
- NOBLE ENERGY INC 01-08-0010
333 TECHNOLOGY DR STE 116
CANONSBURG, PA 15317

SHIRLEY QUADRANGLE
TYLER COUNTY, WEST VIRGINIA
DATE: NOVEMBER 19, 2015



Engineers and Land Surveyors
11023 Mason Dixon Hwy.
Burton, WV 26562-9656
(304) 662-6486

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. 11x17 DRAWINGS
ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.



LOCATION MAP
SHIRLEY WV 7 54 USGS QUADRANGLE
SCALE 1"=1000'



Transferred to CNX Gas Company 2/21/17

SHEET INDEX	
DRAWING NUMBER	DRAWING NAME
1	COVER SHEET
2	AS-BUILT CONDITIONS PLAN
3	ACCESS ROAD PROFILE



NOBLE ENERGY
333 TECHNOLOGY DRIVE, SUITE 116
CANONSBURG, PA 15317



SHR3 WELL PAD
AS-BUILT COVER SHEET

REVISIONS
1-15-16 UPDATED ASBUILT DRAWING



George D. Ely



DRAWN BY	DEE
CHECKED BY	MCH
DATE	11/21/15
SCALE	AS SHOWN
JOB NO.	007-05
DRAWING NAME	SHR3_COMPLETE_ASBUILT.DWG