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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, September 8, 2021  
WELL WORK PLUGGING PERMIT  
Horizontal 6A Plugging

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

Re: Permit approval for SHR3GHS  
47-095-02198-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

A blue ink signature of James A. Martin, Chief. The signature is written in a cursive style and is positioned above the name and title.

James A. Martin  
Chief

Operator's Well Number: SHR3GHS  
Farm Name: NOBLE ENERGY, INC.  
U.S. WELL NUMBER: 47-095-02198-00-00  
Horizontal 6A Plugging  
Date Issued: 9/8/2021

Promoting a healthy environment.

09/10/2021

# PERMIT CONDITIONS

West Virginia Code § 22-6-11 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

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. A cement bond log must be run on the production casing to establish the top of cement and all free casing must be cut and pulled.

- 1) Date 8-16, 2021
- 2) Operator's Well No. SHRL-3G-HS
- 3) API Well No. 47-095 - 02198

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

**APPLICATION FOR A PERMIT TO PLUG AND ABANDON**

4) Well Type: Oil \_\_\_\_ / Gas x / Liquid injection \_\_\_\_ / Waste disposal \_\_\_\_ /  
(If "Gas, Production x or Underground storage \_\_\_\_ ) Deep \_\_\_\_ / Shallow x

5) Location: Elevation 751 Watershed Middle Island Creek  
District Centerville County Tyler Quadrangle Shirley

6) Well Operator CNX Gas Company LLC 7) Designated Agent Anthony Kendziora  
Address 1000 Consol Energy Dr. Address 1000 Consol Energy Dr  
Canonsburg, PA 15317 Canonsburg PA 15317

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Derek Haught Name Conserv  
Address P.O. Box 85 Address 929 Charleston Road  
Smithville WV 26178 Spencer, WV 25276

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10) Work Order: The work order for the manner of plugging this well is as follows AUG 20 2021

See attached

*\* MUST RUN BONA LOG ON PRODUCTION CASING  
TO VERIFY CEMENT TOP.  
CUT & REMOVE ANY FREE CASING.*

WV Department of  
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Derek M. Haught Date 8/17/21

09/10/2021

## SHR 3/40 Procedure

1. Check well for pressure including annuli. Rig up on well with a single pipe ram. All wells are DUC's. Wells will be bond logged before the rig gets there.
2. Run in tubing and cement from depths in table to 100' below TOC from bond log or 200' below the 9 5/8" shoe, whichever is lower.

Well identifier	Surface	MD
SHR3G	Marcellus	6899.48
SHR3H	Burket	6575.83
SHR3J	Burket	6543.92
SHR40C	Burket	6833.71
SHR40E	Burket	7307.31
SHR40H	Burket	6949.73

3. If there is annular pressure, perforate 5 1/2" casing from 200' below the shoe to 5' below the shoe every 50' and squeeze with resin. Make sure annular flow has stopped before proceeding.
4. Once annular flow has been stopped, free point the casing and shoot off 5 1/2" casing at the free point.
5. Pull and lay down 5 1/2" casing.
6. Once casing has been removed cement well to surface
7. Install above ground monument and rig down.

DMAH 8/17/21

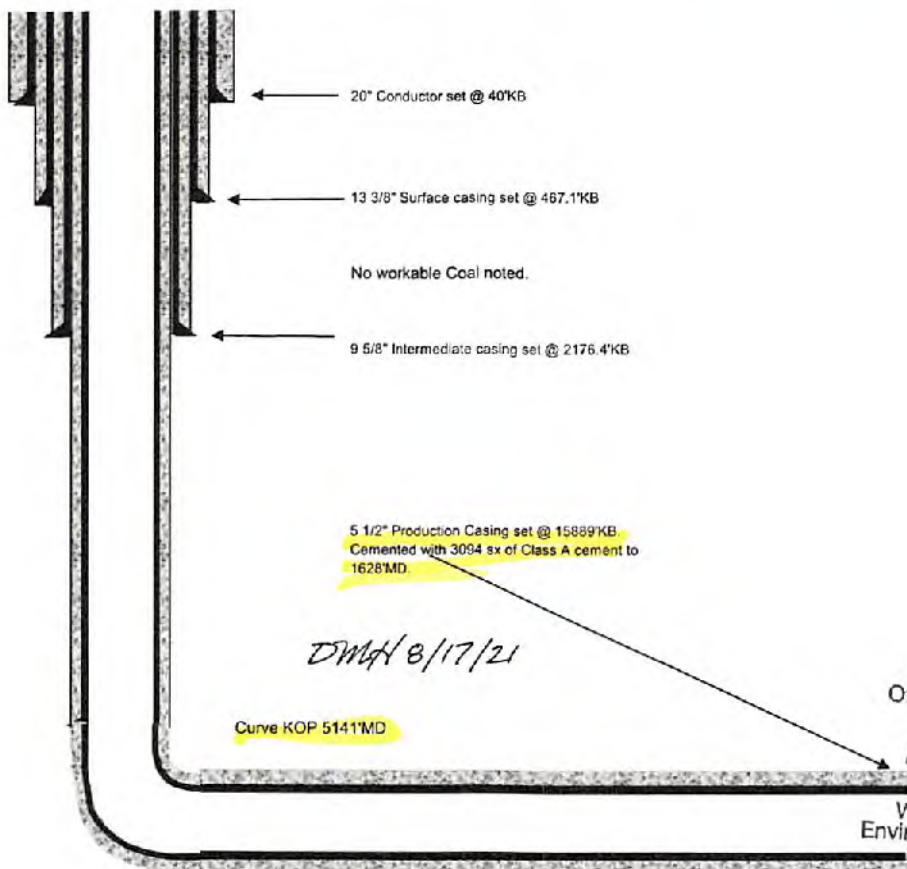
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<b>CNX GAS, LLC</b>	47-095-02198 P
<b>Well Bore Diagram</b>	
<b>SHRL-3G-HS</b>	

<b>State:</b> West Virginia <b>County:</b> Tyler <b>Field:</b> Shirley <b>Current Completion:</b> Marcellus <b>TD MD / TVD:</b> 15916 6317 <b>Cased Hole Depth:</b> 15889 MD <b>Elevations:</b> 751 GL 19.5 KB <b>KOP:</b> 5141 MD 5128 TVD <b>ETOC:</b> 1628 3094 sx	<b>API #:</b> 47-095-02198-00 <b>Lease #:</b> _____ <b>Permit #:</b> _____  <b>Elev Corr:</b> 770.5  <b>Date Updated:</b> 8/9/2021
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**Casing**

<b>Conductor</b>	20"	Depth Set:	40	<b>Grade and Weight:</b>	J55 54.5# BTC	<b>Hole Size:</b>	17.5"
<b>Surface:</b>	13 3/8"	Depth Set:	467.1	<b>Grade and Weight:</b>	HCK55 36# BTC	<b>Hole Size:</b>	12.25"
<b>Intermed:</b>	9 5/8"	Depth Set:	2176.4	<b>Grade and Weight:</b>	P110ICY 20# BTC	<b>Hole Size:</b>	8.5"
<b>Production:</b>	5 1/2"	Depth Set:	15889	<b>Grade and Weight:</b>	_____		
<b>Tubing:</b>	_____	Depth Set:	_____	<b>Grade and Weight:</b>	_____		



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State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-095-02198 County Tyler District Centerville  
Quad Shirley Pad Name SHR Field/Pool Name N/A  
Farm name Noble Energy, Inc. Well Number SHR 3 GHS  
Operator (as registered with the OOG) Noble Energy, Inc.  
Address 1000 Noble Energy Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4362751.64 Easting 514360.98  
Landing Point of Curve Northing 4362591.24 Easting 514098.52  
Bottom Hole Northing 4360018.39 Easting 515081.89

Elevation (ft) 751 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
Synthetic Oil Based

Date permit issued 8/26/2014 Date drilling commenced 9/24/2014 Date drilling ceased 3/20/2015  
Date completion activities began Not completed Date completion activities ceased NA  
Verbal plugging (Y/N) N Date permission granted NA Granted by NA  
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 342 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft none noted for offsets Void(s) encountered (Y/N) depths N  
Coal depth(s) ft NA Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) No

Reviewed by:  
09/10/2021

WR-35  
Rev. 8/23/13

API 47-095-02198 Farm name Noble Energy, Inc. Well number SHR 3 GHS

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	40				
Surface	17 1/2"	13 3/8"	467.1	New	J-55		Y
Coal							
Intermediate 1	13 3/8"	9 5/8"	2176.4	New	K-55		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5 1/2"	15,889.0	New	P-110		Y
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	431	15.6	1.18	508.6		8
Coal							
Intermediate 1	Class A	850	15.6	1.18	1003.0		8
Intermediate 2							
Intermediate 3							
Production	Class A	2240	14.50	1.26	2822.4	1628.0	8
Tubing							

Drillers TD (ft) 15,916 Loggers TD (ft) 15,891  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5141

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING No centralizers used on conductor.

# Centralizers used on the Surface String 26 Centralizers on Intermediate String (Bow string centralizers on first two joints then every third joint to 100' from surface)  
 266 Centralizers on Production String (rigid bow string every joint to KOP, rigid bow spring every third joint from KOP to top of cement).

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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API 47-095 - 02198 Farm name Noble Energy, Inc. Well number SHR 3 GHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	well not complete				Well not complete No data available

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbts)	Amount of Nitrogen/other (units)
								Well not complete no data available

Please insert additional pages as applicable.



WR-35  
Rev. 8/23/13

API 47- 095 - 02198 Farm name Noble Energy, Inc. Well number SHR 3 GHS

PRODUCING FORMATION(S)

DEPTHS

Marcellus 6329 TVD 15916 MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  
 Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company  
Address 5400 D big Tyler road City Charleston State WV Zip 25313

Logging Company Baker Hughes  
Address 400 Technology Drive City Canonsburg State PA Zip 15647

Cementing Company Schlumberger  
Address 4600 J. Barry Ct., Suite 200 City Canonsburg State PA Zip 15317

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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Please insert additional pages as applicable.

Completed by Regina Logue Telephone 724-820-3559  
Signature Regina Logue Title Regulatory Analyst Date 1/11/17

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACTOCUS Registry

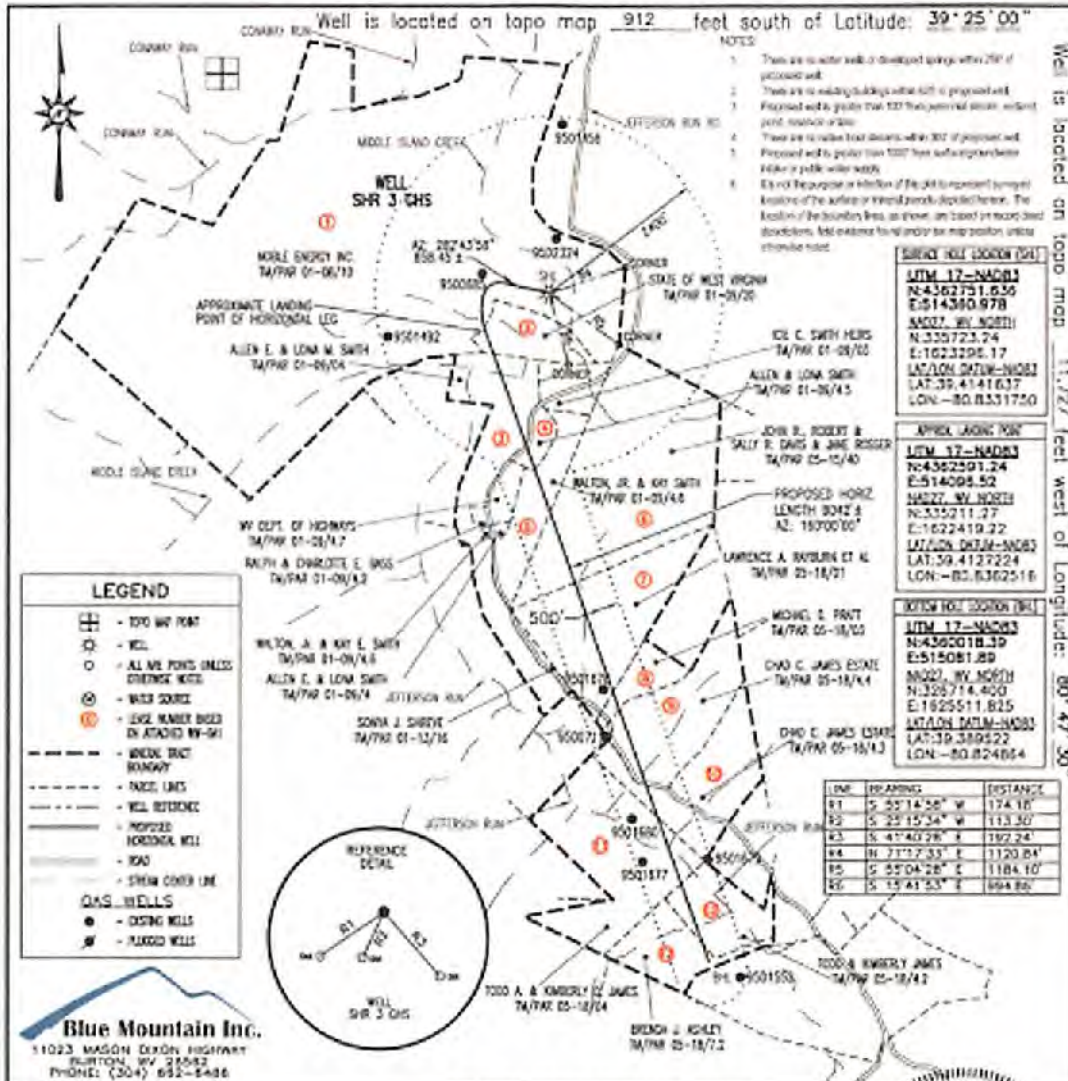
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SHR 3 GHS Formations	Top	Base
Shale	0	766
Pittsburgh Coal	766	775
Shale and Sandstone	775	1222
Dunkard Sand	1222	1233
Shale	1233	1404
Gas Sand	1404	1443
Shale	1443	1535
1st Salt Sand	1535	1559
Shale	1559	1568
2nd Salt Sand	1568	1613
Shale	1613	1696
Maxton Sand	1696	1708
Shale	1708	1751
Big Lime	1751	1831
Big Injun	1831	2025
Price	2025	2383
Murrysville	2383	2397
Shale	2397	2594
50' Sand	2594	2596
Shale	2596	2649
30' Sand	2649	2658
Shale	2658	2700
Gordon Stray	2700	2715
Shale	2715	2751
Gordon	2751	2764
Shale	2764	2860
Fifth Sand	2860	2894
Shale	2894	3300
Speechley Sand	3300	3328
Shale	3328	4336
Warren Sand	4336	4345
Shale	4345	5003
Java Shale	5003	5174
Pipe Creek Shale	5174	5231
Angola Shale	5231	5856
Rhinestreet	5856	6272
Cashaqua	6272	6363
Middlesex	6363	6396
West River	6396	6440
Burkett	6440	6472
Tully Limestone	6472	6503
Hamilton	6503	6614
Marcellus	6614	6664
Onondaga	6664	6667

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FILE #: SHR 3 GHS  
 DRAWING #: SHR 3 GHS  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 149B.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

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

1-4 DENOTES LOCATION OF WELL, ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304

DATE: JUNE 12, 2014  
 OPERATOR'S WELL #: SHR 3 GHS  
 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  
 OIL & GAS ROYALTY OWNER: SEE ATTACHED WW-6A1 ACREAGE: 1113.2681

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: 5,359± TMD: 16,135±

WELL OPERATOR: NOBLE ENERGY, INC. DESIGNATED AGENT: STEVEN M. GREEN  
 Address: 333 TECHNOLOGY DRIVE, SUITE 116 Address: 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590  
 City: CANONSBURG State: PA Zip Code: 15317 City: CHARLESTON State: WV Zip Code: 25301

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WV Department of Environmental Protection

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Blue Mountain Inc.  
 11023 MASON DRAGON HIGHWAY  
 BURTON, WV 25812  
 PHONE: (304) 632-1426

47-095-02198P

WW-4A  
Revised 6-07

1) Date: 8-16-2021  
2) Operator's Well Number  
SHRL-3G-HS  
3) API Well No.: 47 - 095 - 02198

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>CNX Gas Company</u>	Name <u>N/A</u>
Address <u>1000 Consol Energy Drive</u>	Address _____
<u>Canonsburg PA 15317</u>	_____
(b) Name _____	<b>(b) Coal Owner(s) with Declaration</b>
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Derek Haught</u>	<b>(c) Coal Lessee with Declaration</b>
Address <u>PO box 85</u>	Name <u>N/A</u>
<u>Smithville WV 26178</u>	Address _____
Telephone _____	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached plat. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

AUG 20 2021  
WV Department of Environmental Protection

Well Operator CNX Gas Company LLC

By: Raymond Hoan *Raymond Hoan*

Its: Senior Project Manager

Address 1000 Consol Energy Dr

Canonsburg, PA 15317

Telephone 724-485-4000

Subscribed and sworn before me this 15<sup>th</sup> day of August, 2021

*Vicki L. Smith*

My Commission Expires 6/19/22

Commonwealth of Pennsylvania - Notary Public  
Vicki L. Smith, Notary Public  
Indiana County  
My commission expires June 19,  
Commission number 115591z  
Member, Pennsylvania Association of Notaries

**Oil and Gas Privacy Notice**

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

09/10/2021

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**Canonsburg, PA 15317**

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Extra Services & Fees (check box, add fee as appropriate)	\$0.00
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.20
\$	
<b>Total F</b>	<b>\$4.80</b>
\$	
Sent To	CNX Gas Company LLC
Street	1000 Consol Energy Dr.
City, State	Canonsburg, PA 15317

PS Form 3800, April 2019 (for 3800-000-000-000) Instructions



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09/10/2021

WW-9  
(5/16)

47-095-02198P

API Number 47 - 095 - 02198  
Operator's Well No. SHRL-3G-HS

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) Middle Island Creek Quadrangle Shirley

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: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use Vacuum trucks and properly dispose of any fluid or waste return)

DMAH 8/17/21

Will closed loop system be used? If so, describe: no

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

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

Additives to be used in drilling medium? na

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. na

-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.

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Office of Oil and Gas

AUG 20 2021

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 *Raymond Hoan*

Company Official (Typed Name) Raymond Hoan

Company Official Title Senior Project Manager

Subscribed and sworn before me this 18<sup>th</sup> day of August, 2021

*Wicki L. Smith*

My commission expires 10/19/22

Commonwealth of Pennsylvania - Notary Seal  
Wicki L. Smith, Notary Public Notary Public  
Indiana County  
My commission expires June 19, 2022  
Commission number 1155912  
Member, Pennsylvania Association of Notaries

09/10/2021

Proposed Revegetation Treatment: Acres Disturbed N/A no reclaim due to other producing wells present Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino 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, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Derek M. Haught

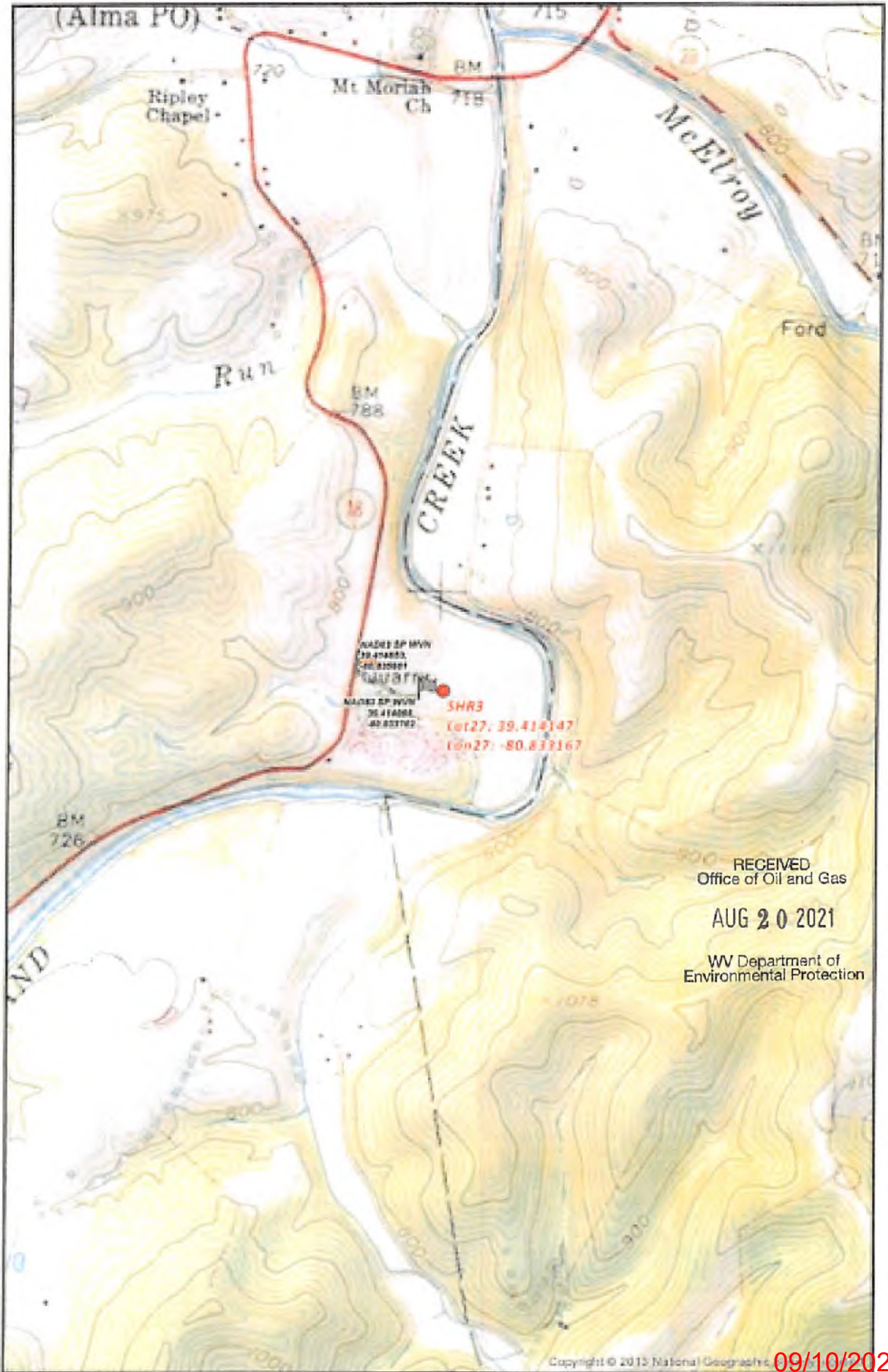
Comments: \_\_\_\_\_

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Title: Oil & Gas Inspector

Date: 8/17/21

Field Reviewed?  Yes  No



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47-095-02198P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 4709502198 WELL NO.: SHRL-3G-HS

FARM NAME: CNX Gas Company

RESPONSIBLE PARTY NAME: CNX Gas Company

COUNTY: Tyler DISTRICT: Centerville

QUADRANGLE: Shirley

SURFACE OWNER: CNX Gas Company

ROYALTY OWNER: CNX Gas Company

UTM GPS NORTHING: 4362751.636

UTM GPS EASTING: 514360.978 GPS ELEVATION: 751

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_  
Real-Time Differential

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

[Signature]  
Signature

Project MANAGER  
Title

8-18-21  
Date

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09/10/2021

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# NOBLE ENERGY

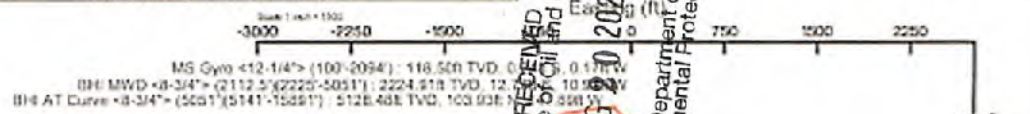
Location: Tyler County, WV  
 Field: Tyler  
 Facility: SHR-3 Pad

Slot: Slot G  
 Well: SHR-3G-HS  
 Wellbore: SHR-3G-HS PWB

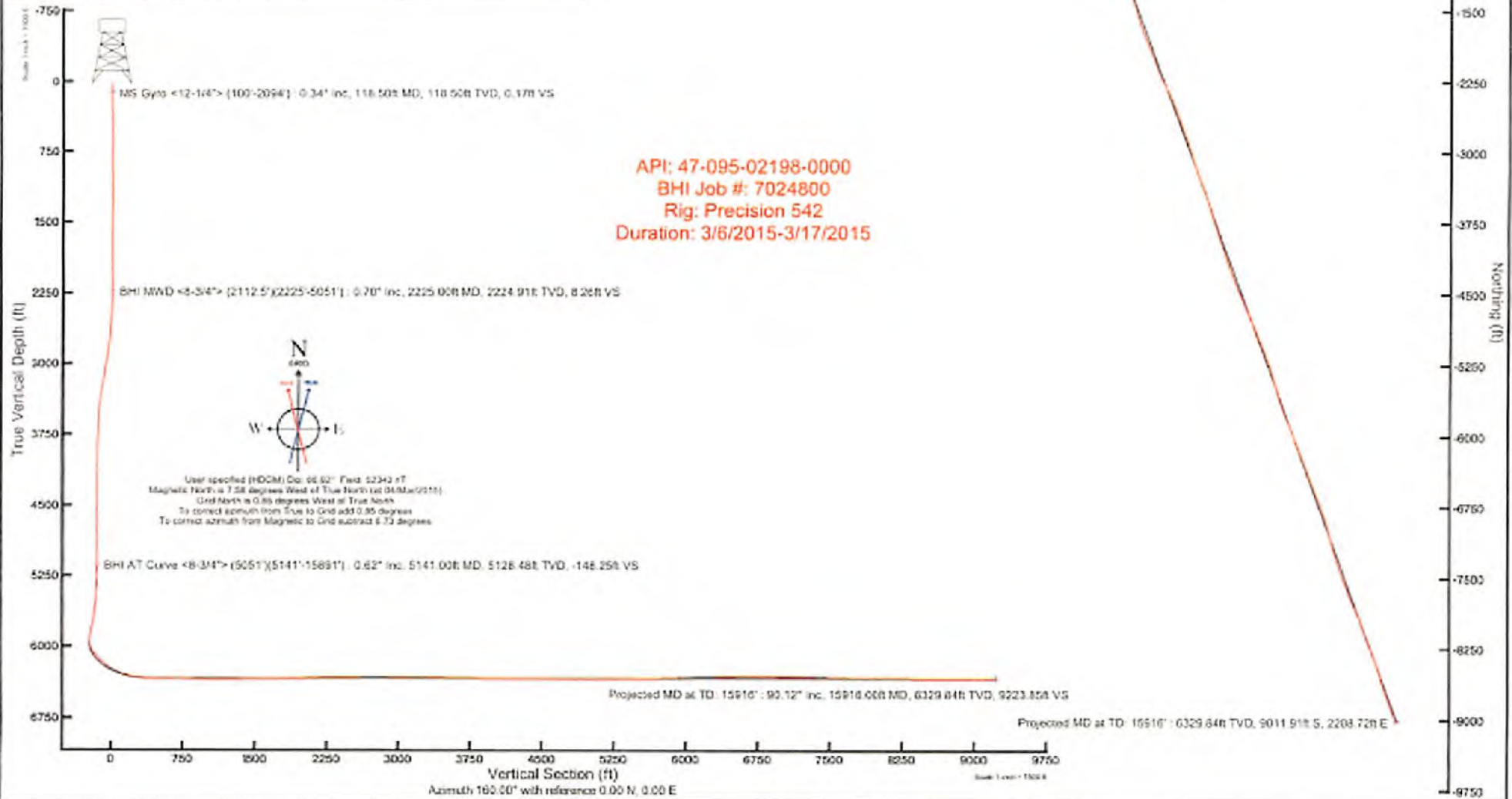


API reference number is 47-095-02198P (47-095)	Grid System: NAD(83) UTM Lambert West Europe 30° East Zone 18N UTM
True vertical depth was determined by Precision 542 (952)	North Reference: Grid north
Measurements were determined by Precision 542 (952)	Survey: True distance
Formation MS (2094) to Mean Sea Level: 118.508	Depth was in feet
Mean Sea Level related to (N Slot, Slot G): 0.00	Created by software on 08/16/2015

Location Information					
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude	
SHR-3 Pad	1623298.034	235743.440	39°24'50.000"N	87°50'00.000"W	
Slot	Local Well ID	Level ID	Grid East (US Ft)	Grid North (US Ft)	Latitude
Slot G	20.19	-1.00	1623298.173	235723.250	39°24'50.000"N
Precision 542 (952) to Mud line (N Slot, Slot G)	18.18				
Mean Sea Level to Mud line (N Slot, Slot G)	-152.228				
Precision 542 (952) to Mean Sea Level	72.781				



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# Actual Wellpath Report

SHR-3G-HS AWP Proj: 15916'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-HS
Field	Tyler	Wellbore	SHR-3G-HS AWB
Facility	SHR-3 Pad		

## REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Edsaryar
Scale	0.999948	Report Generated	18/Mar/2015 at 17:11
Convergence at slot	0.85° West	Database/Source file	WellArchitectEasternDB/SHR-3G-HS_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-20.19	-1.86	1623296.17	335723.25	39°24'50.700"N	80°50'00.050"W
Facility Reference Pt			1623298.03	335743.44	39°24'50.900"N	80°50'00.030"W
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Precision 542 (RKB) to Facility Vertical Datum	770.73ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	770.73ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot G)	18.50ft
MD Reference Pt	Precision 542 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.00°

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# Actual Wellpath Report

SHR-3G-IIS AWP Proj: 15916'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-IIS
Field	Tyler	Wellbore	SHR-3G-IIS AWB
Facility	SHR-3 Pad		

WELLPATH DATA (178 stations) † = interpolated/extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/1000]	Build Rate [°/1000]	Turn Rate [°/1000]	
0.00†	0.000	214.950	0.00	0.00	0.00	0.00	1623296.17	335723.25	39°24'50.700"N	80°50'00.050"W	0.00	0.000	0.00	0.00	0.00	
18.50	0.000	214.950	18.50	0.00	0.00	0.00	1623296.17	335723.25	39°24'50.700"N	80°50'00.050"W	0.00	0.000	0.00	0.00	0.00	
118.50	0.340	214.950	118.50	0.17	-0.24	-0.17	1623296.00	335723.01	39°24'50.698"N	80°50'00.052"W	0.30	214.950	0.34	0.34	0.00	
218.50	0.600	191.160	218.50	0.79	-1.00	-0.44	1623295.73	335722.25	39°24'50.690"N	80°50'00.055"W	1.09	203.809	0.32	0.26	-23.79	
318.50	0.670	232.830	318.49	1.41	-1.87	-1.01	1623295.16	335721.38	39°24'50.682"N	80°50'00.063"W	2.12	208.377	0.46	0.07	41.67	
418.50	0.260	235.160	418.49	1.64	-2.35	-1.66	1623294.51	335720.90	39°24'50.677"N	80°50'00.071"W	2.88	215.248	0.41	-0.41	2.33	
518.50	0.500	181.760	518.48	2.10	-2.92	-1.86	1623294.31	335720.33	39°24'50.671"N	80°50'00.073"W	3.46	212.539	0.40	0.24	-53.40	
618.50	0.610	178.490	618.48	3.01	-3.88	-1.86	1623294.31	335719.37	39°24'50.661"N	80°50'00.073"W	4.31	205.585	0.11	0.11	-3.27	
718.50	0.700	178.720	718.47	4.10	-5.03	-1.83	1623294.34	335718.22	39°24'50.650"N	80°50'00.072"W	5.35	200.024	0.09	0.09	0.23	
818.50	0.690	186.240	818.47	5.22	-6.24	-1.88	1623294.29	335717.01	39°24'50.638"N	80°50'00.073"W	6.51	196.809	0.09	-0.01	7.52	
918.50	0.530	220.850	918.46	5.98	-7.18	-2.25	1623293.92	335716.07	39°24'50.629"N	80°50'00.077"W	7.53	197.402	0.39	-0.16	34.61	
1018.50	0.330	256.820	1018.46	6.17	-7.60	-2.83	1623293.34	335715.65	39°24'50.625"N	80°50'00.085"W	8.11	200.455	0.33	-0.20	35.97	
1118.50	0.270	241.350	1118.46	6.17	-7.78	-3.32	1623292.85	335715.47	39°24'50.623"N	80°50'00.091"W	8.46	203.125	0.10	-0.06	-15.47	
1218.50	0.370	243.750	1218.46	6.24	-8.03	-3.82	1623292.35	335715.22	39°24'50.620"N	80°50'00.097"W	8.90	205.419	0.10	0.10	2.40	
1318.50	0.500	225.360	1318.45	6.46	-8.48	-4.42	1623291.75	335714.77	39°24'50.616"N	80°50'00.105"W	9.57	207.510	0.19	0.13	-18.39	
1418.50	0.250	203.600	1418.45	6.80	-8.99	-4.82	1623291.35	335714.26	39°24'50.611"N	80°50'00.110"W	10.20	208.178	0.28	-0.25	-21.76	
1518.50	0.410	224.390	1518.45	7.11	-9.45	-5.15	1623291.02	335713.80	39°24'50.606"N	80°50'00.114"W	10.76	208.617	0.20	0.16	20.79	
1618.50	0.590	233.660	1618.44	7.41	-10.01	-5.82	1623290.35	335713.24	39°24'50.600"N	80°50'00.122"W	11.58	210.177	0.20	0.18	9.27	
1718.50	0.510	227.430	1718.44	7.73	-10.61	-6.56	1623289.61	335712.64	39°24'50.594"N	80°50'00.132"W	12.48	211.726	0.10	-0.08	-6.23	
1818.50	0.590	228.530	1818.44	8.09	-11.25	-7.27	1623288.90	335712.00	39°24'50.588"N	80°50'00.141"W	13.40	212.877	0.08	0.08	1.10	
1918.50	0.610	243.560	1918.43	8.34	-11.83	-8.14	1623288.03	335711.42	39°24'50.582"N	80°50'00.151"W	14.36	214.515	0.16	0.02	15.03	
2018.50	0.700	243.470	2018.42	8.47	-12.34	-9.16	1623287.01	335710.91	39°24'50.577"N	80°50'00.164"W	15.37	216.582	0.09	0.09	-0.09	
2112.50	0.350	276.940	2112.42	8.40	-12.56	-9.96	1623286.21	335710.69	39°24'50.574"N	80°50'00.175"W	16.03	218.402	0.48	-0.37	35.61	
2225.00	0.700	248.810	2224.91	8.26	-12.77	-10.94	1623285.23	335710.48	39°24'50.572"N	80°50'00.187"W	16.82	220.586	0.38	0.31	-25.00	
2274.00	0.890	275.020	2273.91	8.10	-12.85	-11.60	1623284.57	335710.40	39°24'50.571"N	80°50'00.195"W	17.31	222.079	0.83	0.39	53.49	
2363.00	2.870	286.450	2362.86	6.49	-12.15	-14.42	1623281.75	335711.10	39°24'50.578"N	80°50'00.231"W	18.86	229.882	2.25	2.22	12.84	
2453.00	4.180	287.690	2452.69	3.14	-10.52	-19.71	1623276.46	335712.73	39°24'50.593"N	80°50'00.299"W	22.34	241.911	1.46	1.46	1.38	
2542.00	5.540	292.010	2541.36	-1.71	-7.92	-26.78	1623269.39	335715.33	39°24'50.618"N	80°50'00.390"W	27.93	253.519	1.58	1.53	4.85	
2632.00	7.080	296.220	2630.82	-8.63	-3.85	-35.79	1623260.38	335719.41	39°24'50.657"N	80°50'00.505"W	35.99	263.868	1.79	1.71	4.68	
2722.00	7.600	297.530	2720.08	-17.02	1.36	-46.04	1623250.13	335724.61	39°24'50.707"N	80°50'00.637"W	46.06	271.687	0.61	0.58	1.46	

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# Actual Wellpath Report

SHR-3G-HS AWP Proj: 15916'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-HS
Field	Tyler	Wellbore	SHR-3G-HS AWB
Facility	SHR-3 Pad		

## WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2811.00	8.440	307.430	2808.21	-26.87	8.05	-56.45	1623239.72	335731.30	39°24'50.771"N	80°50'00.771"W	57.02	278.113	1.81	0.94	11.12
2901.00	11.160	318.980	2896.90	-40.57	18.64	-67.41	1623228.76	335741.88	39°24'50.874"N	80°50'00.912"W	69.94	285.453	3.71	3.02	12.83
2991.00	9.200	319.480	2985.48	-55.44	30.68	-77.80	1623218.37	335753.93	39°24'50.992"N	80°50'01.047"W	83.63	291.519	2.18	-2.18	0.56
3080.00	8.610	312.400	3073.41	-68.01	40.58	-87.35	1623208.83	335763.83	39°24'51.088"N	80°50'01.170"W	96.31	294.918	1.40	-0.66	-7.96
3170.00	11.630	311.930	3162.00	-81.98	51.19	-99.07	1623197.10	335774.43	39°24'51.191"N	80°50'01.322"W	111.51	297.323	3.36	3.36	-0.52
3260.00	12.050	308.720	3250.08	-98.02	63.12	-113.15	1623183.02	335786.37	39°24'51.307"N	80°50'01.503"W	129.57	299.156	0.87	0.47	-3.57
3349.00	8.120	316.640	3337.69	-111.73	73.51	-124.72	1623171.46	335796.76	39°24'51.408"N	80°50'01.653"W	144.77	300.515	4.67	-4.42	8.90
3439.00	5.190	336.350	3427.09	-121.63	81.86	-130.72	1623165.46	335805.11	39°24'51.490"N	80°50'01.731"W	154.24	302.056	4.08	-3.26	21.90
3529.00	3.460	341.090	3516.83	-128.41	88.16	-133.23	1623162.94	335811.41	39°24'51.552"N	80°50'01.764"W	159.76	303.493	1.96	-1.92	5.27
3618.00	2.880	337.560	3605.69	-133.33	92.77	-134.96	1623161.22	335816.01	39°24'51.597"N	80°50'01.787"W	163.77	304.504	0.69	-0.65	-3.97
3708.00	1.700	330.430	3695.62	-136.91	96.02	-136.48	1623159.70	335819.26	39°24'51.629"N	80°50'01.807"W	166.87	305.128	1.35	-1.31	-7.92
3798.00	1.770	337.630	3785.58	-139.61	98.47	-137.67	1623158.51	335821.71	39°24'51.653"N	80°50'01.822"W	169.26	305.574	0.25	0.08	8.00
3887.00	1.190	355.490	3874.55	-141.88	100.66	-138.26	1623157.91	335823.90	39°24'51.675"N	80°50'01.830"W	171.02	306.055	0.83	-0.65	20.07
3976.00	0.690	334.980	3963.54	-143.30	102.06	-138.56	1623157.62	335825.31	39°24'51.688"N	80°50'01.835"W	172.09	306.375	0.67	-0.56	-23.04
4066.00	0.680	339.340	4053.53	-144.37	103.06	-138.98	1623157.20	335826.30	39°24'51.698"N	80°50'01.840"W	173.02	306.557	0.06	-0.01	4.84
4155.00	1.230	294.350	4142.52	-145.57	103.94	-140.04	1623156.14	335827.19	39°24'51.707"N	80°50'01.854"W	174.40	306.585	1.00	0.62	-50.55
4245.00	0.800	290.130	4232.51	-146.65	104.56	-141.51	1623154.67	335827.80	39°24'51.713"N	80°50'01.873"W	175.94	306.460	0.48	-0.48	-4.69
4335.00	0.440	286.380	4322.50	-147.26	104.87	-142.43	1623153.75	335828.12	39°24'51.716"N	80°50'01.884"W	176.87	306.365	0.40	-0.40	-4.17
4424.00	0.610	254.500	4411.50	-147.50	104.84	-143.21	1623152.97	335828.09	39°24'51.715"N	80°50'01.894"W	177.49	306.207	0.37	0.19	-35.82
4514.00	0.540	240.650	4501.49	-147.47	104.51	-144.04	1623152.13	335827.75	39°24'51.712"N	80°50'01.905"W	177.96	305.961	0.17	-0.08	-15.39
4603.00	0.220	267.440	4590.49	-147.45	104.29	-144.58	1623151.60	335827.54	39°24'51.710"N	80°50'01.912"W	178.27	305.805	0.40	-0.36	30.10
4693.00	0.250	254.850	4680.49	-147.52	104.23	-144.94	1623151.24	335827.48	39°24'51.709"N	80°50'01.916"W	178.53	305.721	0.07	0.03	-13.99
4783.00	0.440	252.700	4770.49	-147.55	104.08	-145.46	1623150.72	335827.32	39°24'51.707"N	80°50'01.923"W	178.86	305.584	0.21	0.21	-2.39
4872.00	0.340	266.370	4859.49	-147.64	103.96	-146.05	1623150.13	335827.21	39°24'51.706"N	80°50'01.930"W	179.27	305.444	0.15	-0.11	15.36
4962.00	0.470	279.870	4949.48	-147.90	104.01	-146.68	1623149.50	335827.25	39°24'51.706"N	80°50'01.938"W	179.81	305.339	0.18	0.14	15.00
5051.00	0.250	249.290	5038.48	-148.08	104.00	-147.22	1623148.96	335827.25	39°24'51.706"N	80°50'01.945"W	180.25	305.238	0.32	-0.25	-34.36
5141.00	0.620	270.190	5128.48	-148.25	103.93	-147.89	1623148.29	335827.18	39°24'51.706"N	80°50'01.954"W	180.76	305.098	0.44	0.41	23.22
5231.00	6.170	269.210	5218.29	-150.01	103.87	-153.22	1623142.96	335827.11	39°24'51.704"N	80°50'02.022"W	185.11	304.133	6.17	6.17	-1.09
5321.00	10.240	265.730	5307.35	-153.77	103.21	-166.04	1623130.14	335826.45	39°24'51.696"N	80°50'02.185"W	195.50	301.864	4.55	4.52	-3.87
5410.00	14.480	256.710	5394.27	-157.22	100.06	-184.77	1623111.41	335823.30	39°24'51.662"N	80°50'02.423"W	210.12	298.437	5.22	4.76	-10.13

# Actual Wellpath Report

SHR-3G-HS AWP Proj: 15916'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-HS
Field	Tyler	Wellbore	SHR-3G-HS AWB
Facility	SHR-3 Pad		

## WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
5499.00	20.010	255.900	5479.24	-160.08	93.78	-210.38	1623085.80	335817.03	39°24'51.596"N	80°50'02.748"W	230.34	294.026	6.22	6.21	-0.91
5589.00	26.280	261.780	5561.96	-165.74	87.18	-245.08	1623051.11	335810.42	39°24'51.526"N	80°50'03.189"W	260.12	289.581	7.42	6.97	6.53
5679.00	31.980	261.960	5640.55	-174.76	80.99	-288.43	1623007.75	335804.24	39°24'51.458"N	80°50'03.740"W	299.59	285.684	6.33	6.33	0.20
5768.00	37.700	262.030	5713.56	-185.32	73.91	-338.76	1622957.43	335797.16	39°24'51.381"N	80°50'04.380"W	346.73	282.309	6.43	6.43	0.08
5858.00	43.010	262.010	5782.12	-197.45	65.83	-396.45	1622899.74	335789.07	39°24'51.292"N	80°50'05.113"W	401.88	279.427	5.90	5.90	-0.02
5948.00	47.690	261.890	5845.36	-210.70	56.86	-459.83	1622836.36	335780.11	39°24'51.195"N	80°50'05.919"W	463.33	277.049	5.20	5.20	-0.13
6037.00	51.380	258.020	5903.12	-222.34	44.99	-526.46	1622769.74	335768.24	39°24'51.067"N	80°50'06.765"W	528.38	274.885	5.30	4.15	-4.35
6127.00	51.480	245.320	5959.37	-224.38	22.94	-593.01	1622703.19	335746.19	39°24'50.840"N	80°50'07.609"W	593.45	272.215	11.02	0.11	-14.11
6217.00	52.790	232.000	6014.77	-210.39	-13.93	-653.41	1622642.79	335709.32	39°24'50.467"N	80°50'08.372"W	653.56	268.779	11.76	1.46	-14.80
6307.00	61.590	223.290	6063.55	-181.43	-64.97	-708.98	1622587.23	335658.28	39°24'49.954"N	80°50'09.070"W	711.95	264.764	12.71	9.78	-9.68
6396.00	60.010	221.030	6106.98	-145.16	-122.55	-761.13	1622535.08	335600.71	39°24'49.377"N	80°50'09.723"W	770.93	260.853	2.84	-1.78	-2.54
6486.00	59.920	212.300	6152.09	-102.41	-184.96	-807.59	1622488.63	335538.30	39°24'48.754"N	80°50'10.303"W	828.50	257.100	8.40	-0.10	-9.70
6575.00	60.880	200.850	6196.16	-49.32	-254.01	-842.09	1622454.13	335469.25	39°24'48.066"N	80°50'10.730"W	879.56	253.215	11.23	1.08	-12.87
6665.00	65.170	192.270	6237.03	15.07	-330.80	-864.80	1622431.41	335392.46	39°24'47.304"N	80°50'11.005"W	925.91	249.067	9.74	4.77	-9.53
6755.00	69.930	186.040	6271.42	87.68	-412.86	-877.95	1622418.27	335310.41	39°24'46.491"N	80°50'11.157"W	970.18	244.815	8.30	5.29	-6.92
6844.00	75.000	176.500	6298.29	166.67	-497.56	-879.73	1622416.49	335225.72	39°24'45.654"N	80°50'11.163"W	1010.69	240.508	11.70	5.70	-10.72
6934.00	80.220	169.930	6317.61	252.18	-584.76	-869.30	1622426.91	335138.52	39°24'44.794"N	80°50'11.014"W	1047.68	236.072	9.19	5.80	-7.30
7023.00	85.970	162.000	6328.32	339.95	-670.36	-847.87	1622448.35	335052.92	39°24'43.951"N	80°50'10.725"W	1080.86	231.668	10.95	6.46	-8.91
7113.00	89.140	159.750	6332.16	429.84	-755.30	-818.41	1622477.80	334967.99	39°24'43.116"N	80°50'10.333"W	1113.68	227.296	4.32	3.52	-2.50
7202.00	89.020	158.750	6333.59	518.82	-838.52	-786.88	1622509.33	334884.78	39°24'42.298"N	80°50'09.916"W	1149.91	223.180	1.13	-0.13	-1.12
7292.00	89.110	158.350	6335.06	608.78	-922.27	-753.97	1622542.24	334801.03	39°24'41.475"N	80°50'09.481"W	1191.24	219.267	0.46	0.10	-0.44
7381.00	89.170	155.720	6336.39	697.64	-1004.20	-719.26	1622576.95	334719.10	39°24'40.671"N	80°50'09.023"W	1235.21	215.612	2.96	0.07	-2.96
7471.00	89.020	156.620	6337.82	787.43	-1086.52	-682.90	1622613.31	334636.79	39°24'39.862"N	80°50'08.544"W	1283.31	212.150	1.01	-0.17	1.00
7561.00	88.980	158.030	6339.39	877.31	-1169.55	-648.21	1622647.99	334553.77	39°24'39.047"N	80°50'08.086"W	1337.17	208.997	1.57	-0.04	1.57
7650.00	89.510	159.580	6340.56	966.28	-1252.52	-616.04	1622680.17	334470.80	39°24'38.232"N	80°50'07.661"W	1395.81	206.190	1.84	0.60	1.74
7740.00	89.690	161.140	6341.19	1056.28	-1337.28	-585.79	1622710.41	334386.05	39°24'37.399"N	80°50'07.260"W	1459.95	203.656	1.74	0.20	1.73
7830.00	90.250	163.200	6341.24	1146.21	-1422.95	-558.23	1622737.97	334300.38	39°24'36.556"N	80°50'06.892"W	1528.53	201.420	2.37	0.62	2.29
7919.00	90.740	164.580	6340.47	1235.00	-1508.45	-533.54	1622762.66	334214.88	39°24'35.715"N	80°50'06.561"W	1600.02	199.479	1.65	0.55	1.55
8009.00	90.620	163.450	6339.40	1324.77	-1594.96	-508.76	1622787.44	334128.38	39°24'34.863"N	80°50'06.229"W	1674.14	197.692	1.26	-0.13	-1.26
8098.00	90.490	161.080	6338.54	1413.69	-1679.72	-481.65	1622814.55	334043.62	39°24'34.030"N	80°50'05.868"W	1747.41	196.000	2.67	-0.15	-2.66

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Environmental Protection



## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-HS
Field	Tyler	Wellbore	SHR-3G-HS AWB
Facility	SHR-3 Pad		

## WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
8188.00	90.550	158.110	6337.72	1503.67	-1764.06	-450.27	1622845.92	333959.29	39°24'33.201"N	80°50'05.452"W	1820.62	194.319	3.30	0.07	-3.30
8277.00	90.580	156.910	6336.84	1592.58	-1846.29	-416.23	1622879.96	333877.06	39°24'32.393"N	80°50'05.003"W	1892.62	192.705	1.35	0.03	-1.35
8367.00	90.520	157.970	6335.98	1682.49	-1929.39	-381.71	1622914.48	333793.96	39°24'31.577"N	80°50'04.548"W	1966.79	191.191	1.18	-0.07	1.18
8456.00	90.920	158.500	6334.86	1771.44	-2012.04	-348.71	1622947.48	333711.32	39°24'30.765"N	80°50'04.112"W	2042.04	189.832	0.75	0.45	0.60
8546.00	90.950	158.780	6333.39	1861.40	-2095.85	-315.93	1622980.26	333627.52	39°24'29.942"N	80°50'03.678"W	2119.53	188.572	0.31	0.03	0.31
8635.00	91.450	157.510	6331.53	1950.33	-2178.43	-282.81	1623013.38	333544.94	39°24'29.130"N	80°50'03.241"W	2196.71	187.397	1.53	0.56	-1.43
8724.00	91.720	155.100	6329.06	2039.10	-2259.89	-247.06	1623049.12	333463.48	39°24'28.331"N	80°50'02.770"W	2273.36	186.239	2.72	0.30	-2.71
8814.00	92.120	152.860	6326.05	2128.55	-2340.72	-207.60	1623088.58	333382.66	39°24'27.538"N	80°50'02.252"W	2349.91	185.068	2.53	0.44	-2.49
8904.00	90.920	155.280	6323.66	2218.03	-2421.62	-168.27	1623127.91	333301.76	39°24'26.744"N	80°50'01.736"W	2427.46	183.975	3.00	-1.33	2.69
8993.00	90.740	159.110	6322.37	2306.90	-2503.64	-133.78	1623162.40	333219.74	39°24'25.938"N	80°50'01.281"W	2507.21	183.059	4.31	-0.20	4.30
9082.00	90.860	160.740	6321.13	2395.89	-2587.22	-103.23	1623192.94	333136.17	39°24'25.117"N	80°50'00.876"W	2589.28	182.285	1.84	0.13	1.83
9172.00	90.430	159.970	6320.12	2485.88	-2671.98	-72.98	1623223.19	333051.42	39°24'24.284"N	80°50'00.474"W	2672.98	181.565	0.98	-0.48	-0.86
9261.00	90.400	159.990	6319.47	2574.88	-2755.60	-42.51	1623253.66	332967.80	39°24'23.462"N	80°50'00.071"W	2755.93	180.884	0.04	-0.03	0.02
9351.00	90.310	160.640	6318.91	2664.87	-2840.34	-12.20	1623283.98	332883.07	39°24'22.629"N	80°49'59.668"W	2840.36	180.246	0.73	-0.10	0.72
9441.00	89.940	162.420	6318.72	2754.84	-2925.70	16.32	1623312.49	332797.71	39°24'21.790"N	80°49'59.289"W	2925.74	179.680	2.02	-0.41	1.98
9530.00	89.750	164.240	6318.96	2843.68	-3010.95	41.85	1623338.01	332712.46	39°24'20.951"N	80°49'58.948"W	3011.24	179.204	2.06	-0.21	2.04
9620.00	89.750	163.180	6319.35	2933.49	-3097.34	67.09	1623363.26	332626.08	39°24'20.101"N	80°49'58.610"W	3098.06	178.759	1.18	0.00	-1.18
9709.00	89.850	160.650	6319.66	3022.43	-3181.93	94.72	1623390.88	332541.49	39°24'19.269"N	80°49'58.242"W	3183.34	178.295	2.84	0.11	-2.84
9798.00	89.480	158.680	6320.18	3111.43	-3265.38	125.64	1623421.80	332458.05	39°24'18.449"N	80°49'57.832"W	3267.80	177.797	2.25	-0.42	-2.21
9888.00	89.230	159.150	6321.19	3201.40	-3349.35	158.02	1623454.18	332374.08	39°24'17.624"N	80°49'57.404"W	3353.08	177.299	0.59	-0.28	0.52
9978.00	89.320	160.550	6322.33	3291.39	-3433.83	189.02	1623485.18	332289.60	39°24'16.793"N	80°49'56.993"W	3439.03	176.849	1.56	0.10	1.56
10067.00	89.570	162.080	6323.20	3380.36	-3518.13	217.53	1623513.69	332205.31	39°24'15.964"N	80°49'56.614"W	3524.85	176.462	1.74	0.28	1.72
10157.00	89.380	162.360	6324.02	3470.29	-3603.83	245.01	1623541.17	332119.61	39°24'15.121"N	80°49'56.248"W	3612.15	176.111	0.38	-0.21	0.31
10247.00	89.540	162.110	6324.87	3560.22	-3689.54	272.47	1623568.62	332033.91	39°24'14.278"N	80°49'55.882"W	3699.58	175.776	0.33	0.18	-0.28
10336.00	88.950	161.680	6326.04	3649.16	-3774.12	300.12	1623596.28	331949.33	39°24'13.447"N	80°49'55.514"W	3786.04	175.453	0.82	-0.66	-0.48
10426.00	89.170	161.820	6327.52	3739.11	-3859.58	328.30	1623624.46	331863.88	39°24'12.606"N	80°49'55.138"W	3873.52	175.138	0.29	0.24	0.16
10515.00	89.020	161.940	6328.92	3828.05	-3944.16	355.98	1623652.13	331779.31	39°24'11.774"N	80°49'54.770"W	3960.19	174.843	0.22	-0.17	0.13
10605.00	89.020	162.110	6330.46	3917.98	-4029.75	383.75	1623679.90	331693.72	39°24'10.933"N	80°49'54.400"W	4047.98	174.560	0.19	0.00	0.19
10694.00	88.800	161.350	6332.16	4006.92	-4114.25	411.65	1623707.79	331609.22	39°24'10.102"N	80°49'54.029"W	4134.79	174.286	0.89	-0.25	-0.85
10784.00	89.200	160.490	6333.73	4096.90	-4199.29	441.06	1623737.21	331524.19	39°24'09.266"N	80°49'53.638"W	4222.39	174.004	1.05	0.44	-0.96

# Actual Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-IIS
Field	Tyler	Wellbore	SHR-3G-IIS AWB
Facility	SHR-3 Pad		

## WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/1000]	Build Rate [°/100ft]	Turn Rate [°/100ft]
10873.00	89.940	159.880	6334.39	4185.89	-4283.02	471.23	1623767.37	331440.46	39°24'08.443"N	80°49'53.238"W	4308.87	173.721	1.08	0.83	-0.69
10963.00	90.120	158.350	6334.35	4275.88	-4367.10	503.31	1623799.46	331356.38	39°24'07.616"N	80°49'52.813"W	4396.01	173.426	1.71	0.20	-1.70
11053.00	88.980	156.760	6335.05	4365.79	-4450.28	537.67	1623833.81	331273.21	39°24'06.799"N	80°49'52.360"W	4482.64	173.111	2.17	-1.27	-1.77
11142.00	89.420	156.990	6336.30	4454.65	-4532.12	572.62	1623868.76	331191.38	39°24'05.996"N	80°49'51.899"W	4568.15	172.799	0.56	0.49	0.26
11232.00	89.540	157.370	6337.11	4544.54	-4615.07	607.53	1623903.66	331108.43	39°24'05.181"N	80°49'51.439"W	4654.89	172.501	0.44	0.13	0.42
11321.00	89.970	157.510	6337.49	4633.45	-4697.26	641.67	1623937.81	331026.24	39°24'04.374"N	80°49'50.989"W	4740.89	172.221	0.51	0.48	0.16
11411.00	90.620	156.860	6337.03	4723.34	-4780.22	676.57	1623972.70	330943.29	39°24'03.559"N	80°49'50.529"W	4827.86	171.944	1.02	0.72	-0.72
11501.00	90.460	157.220	6336.18	4813.21	-4863.08	711.67	1624007.80	330860.43	39°24'02.745"N	80°49'50.066"W	4914.88	171.674	0.44	-0.18	0.40
11590.00	90.000	158.150	6335.83	4902.14	-4945.42	745.47	1624041.60	330778.10	39°24'01.937"N	80°49'49.620"W	5001.29	171.428	1.17	-0.52	1.04
11680.00	89.940	158.320	6335.87	4992.09	-5029.00	778.84	1624074.97	330694.52	39°24'01.115"N	80°49'49.179"W	5088.95	171.197	0.20	-0.07	0.19
11769.00	89.910	159.180	6335.99	5081.07	-5111.95	811.09	1624107.22	330611.58	39°24'00.300"N	80°49'48.753"W	5175.90	170.984	0.97	-0.03	0.97
11859.00	89.970	160.250	6336.08	5171.07	-5196.37	842.30	1624138.42	330527.17	39°23'59.471"N	80°49'48.339"W	5264.19	170.793	1.19	0.07	1.19
11949.00	90.150	162.280	6335.99	5261.04	-5281.59	871.20	1624167.32	330441.94	39°23'58.633"N	80°49'47.955"W	5352.96	170.633	2.26	0.20	2.26
12038.00	90.340	162.830	6335.61	5349.95	-5366.50	897.88	1624194.00	330357.04	39°23'57.798"N	80°49'47.599"W	5441.09	170.502	0.65	0.21	0.62
12128.00	90.680	163.900	6334.81	5439.79	-5452.73	923.65	1624219.77	330270.82	39°23'56.949"N	80°49'47.255"W	5530.40	170.386	1.25	0.38	1.19
12217.00	91.110	165.200	6333.42	5528.50	-5538.50	947.35	1624243.47	330185.05	39°23'56.105"N	80°49'46.937"W	5618.94	170.294	1.54	0.48	1.46
12307.00	91.080	161.710	6331.70	5618.31	-5624.74	972.97	1624269.09	330098.81	39°23'55.256"N	80°49'46.594"W	5708.28	170.186	3.88	-0.03	-3.88
12396.00	91.420	158.010	6329.75	5707.27	-5708.27	1003.60	1624299.72	330015.29	39°23'54.436"N	80°49'46.188"W	5795.82	170.028	4.17	0.38	-4.16
12486.00	91.420	157.280	6327.52	5797.16	-5791.48	1037.82	1624333.94	329932.09	39°23'53.618"N	80°49'45.737"W	5883.73	169.841	0.81	0.00	-0.81
12576.00	91.820	157.410	6324.98	5887.03	-5874.50	1072.48	1624368.59	329849.07	39°23'52.803"N	80°49'45.280"W	5971.59	169.654	0.47	0.44	0.14
12666.00	91.720	159.330	6322.20	5976.95	-5958.12	1105.63	1624401.74	329765.46	39°23'51.981"N	80°49'44.842"W	6059.83	169.487	2.14	-0.11	2.13
12755.00	91.570	158.790	6319.64	6065.90	-6041.20	1137.43	1624433.54	329682.37	39°23'51.165"N	80°49'44.421"W	6147.35	169.337	0.63	-0.17	-0.61
12845.00	91.230	157.250	6317.45	6155.82	-6124.64	1171.10	1624467.21	329598.95	39°23'50.345"N	80°49'43.976"W	6235.59	169.175	1.75	-0.38	-1.71
12934.00	91.230	157.670	6315.54	6244.71	-6206.82	1205.21	1624501.32	329516.77	39°23'49.538"N	80°49'43.526"W	6322.75	169.011	0.47	0.00	0.47
13024.00	91.570	159.620	6313.34	6334.65	-6290.61	1237.97	1624534.08	329432.98	39°23'48.715"N	80°49'43.093"W	6411.27	168.867	2.20	0.38	2.17
13113.00	91.350	161.690	6311.07	6423.61	-6374.55	1267.44	1624563.54	329349.04	39°23'47.890"N	80°49'42.702"W	6499.33	168.755	2.34	-0.25	2.33
13203.00	92.090	157.730	6308.37	6513.55	-6458.91	1298.63	1624594.73	329264.69	39°23'47.060"N	80°49'42.289"W	6588.17	168.632	4.47	0.82	-4.40
13292.00	90.860	157.990	6306.07	6602.46	-6541.32	1332.16	1624628.26	329182.28	39°23'46.251"N	80°49'41.846"W	6675.59	168.489	1.41	-1.38	0.29
13382.00	90.000	157.900	6305.40	6692.40	-6624.73	1365.96	1624662.05	329098.88	39°23'45.432"N	80°49'41.400"W	6764.09	168.349	0.96	-0.96	-0.10
13471.00	88.920	160.050	6306.24	6781.37	-6707.80	1397.88	1624693.98	329015.82	39°23'44.615"N	80°49'40.978"W	6851.91	168.228	2.70	-1.21	2.42



47-095-02198P



# Actual Wellpath Report

SHR-3G-HS AWP Proj: 15916'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-HS
Field	Tyler	Wellbore	SHR-3G-HS AWB
Facility	SHR-3 Pad		

## WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [%/100ft]	Build Rate [%/100ft]	Turn Rate [%/100ft]
13561.00	89.050	161.800	6307.83	6871.34	-6792.84	1427.29	1624723.38	328930.78	39°23'43.779"N	80°49'40.588"W	6941.17	168.134	1.95	0.14	1.94
13651.00	88.770	161.750	6309.54	6961.28	-6878.31	1455.43	1624751.52	328845.32	39°23'42.939"N	80°49'40.213"W	7030.61	168.053	0.32	-0.31	-0.06
13740.00	89.720	163.720	6310.72	7050.17	-6963.29	1481.84	1624777.93	328760.34	39°23'42.103"N	80°49'39.861"W	7119.21	167.986	2.46	1.07	2.21
13830.00	90.060	167.290	6310.89	7139.74	-7050.41	1504.36	1624800.45	328673.23	39°23'41.245"N	80°49'39.557"W	7209.12	167.955	3.98	0.38	3.97
13919.00	89.080	165.480	6311.56	7228.18	-7136.90	1525.31	1624821.40	328586.74	39°23'40.393"N	80°49'39.274"W	7298.08	167.936	2.31	-1.10	-2.03
14009.00	88.060	163.520	6313.80	7317.87	-7223.59	1549.36	1624845.44	328500.05	39°23'39.540"N	80°49'38.952"W	7387.88	167.894	2.45	-1.13	-2.18
14099.00	88.030	162.550	6316.88	7407.69	-7309.63	1575.60	1624871.68	328414.02	39°23'38.694"N	80°49'38.601"W	7477.51	167.836	1.08	-0.03	-1.08
14188.00	88.770	160.530	6319.36	7496.62	-7394.01	1603.77	1624899.85	328329.64	39°23'37.864"N	80°49'38.227"W	7565.94	167.762	2.42	0.83	-2.27
14278.00	88.520	158.210	6321.49	7586.58	-7478.21	1635.47	1624931.55	328245.45	39°23'37.037"N	80°49'37.807"W	7654.96	167.664	2.59	-0.28	-2.58
14367.00	88.550	158.050	6323.76	7675.50	-7560.78	1668.61	1624964.69	328162.89	39°23'36.225"N	80°49'37.370"W	7742.71	167.555	0.18	0.03	-0.18
14457.00	88.770	158.970	6325.87	7765.45	-7644.49	1701.57	1624997.65	328079.17	39°23'35.403"N	80°49'36.934"W	7831.58	167.451	1.05	0.24	1.02
14547.00	89.630	157.960	6327.13	7855.40	-7728.20	1734.60	1625030.68	327995.47	39°23'34.580"N	80°49'36.498"W	7920.48	167.350	1.47	0.96	-1.12
14636.00	89.510	155.890	6327.79	7944.27	-7810.07	1769.48	1625065.56	327913.60	39°23'33.776"N	80°49'36.038"W	8008.02	167.234	2.33	-0.13	-2.33
14726.00	89.510	157.900	6328.56	8034.13	-7892.85	1804.80	1625100.87	327830.83	39°23'32.964"N	80°49'35.573"W	8096.56	167.120	2.23	0.00	2.23
14815.00	90.000	161.350	6328.94	8123.11	-7976.27	1835.78	1625131.85	327747.42	39°23'32.144"N	80°49'35.162"W	8184.80	167.039	3.92	0.55	3.88
14905.00	90.000	161.130	6328.94	8213.09	-8061.48	1864.72	1625160.79	327662.20	39°23'31.306"N	80°49'34.778"W	8274.34	166.976	0.24	0.00	-0.24
14995.00	89.880	159.600	6329.04	8303.09	-8146.25	1894.96	1625191.03	327577.44	39°23'30.473"N	80°49'34.377"W	8363.75	166.905	1.71	-0.13	-1.70
15084.00	89.720	158.560	6329.35	8392.07	-8229.38	1926.74	1625222.81	327494.32	39°23'29.656"N	80°49'33.956"W	8451.93	166.823	1.18	-0.18	-1.17
15174.00	89.750	158.870	6329.77	8482.05	-8313.24	1959.41	1625255.48	327410.46	39°23'28.832"N	80°49'33.524"W	8541.03	166.738	0.35	0.03	0.34
15263.00	89.850	159.990	6330.08	8571.04	-8396.56	1990.68	1625286.74	327327.14	39°23'28.013"N	80°49'33.111"W	8629.32	166.662	1.26	0.11	1.26
15353.00	89.940	161.760	6330.24	8661.03	-8481.59	2020.17	1625316.23	327242.12	39°23'27.177"N	80°49'32.719"W	8718.86	166.603	1.97	0.10	1.97
15443.00	89.970	162.360	6330.31	8750.97	-8567.22	2047.89	1625343.95	327156.50	39°23'26.335"N	80°49'32.350"W	8808.58	166.556	0.67	0.03	0.67
15532.00	90.060	161.560	6330.29	8839.92	-8651.84	2075.45	1625371.51	327071.88	39°23'25.502"N	80°49'31.983"W	8897.29	166.510	0.90	0.10	-0.90
15622.00	90.000	160.540	6330.24	8929.90	-8736.96	2104.68	1625400.73	326986.76	39°23'24.665"N	80°49'31.595"W	8986.89	166.456	1.14	-0.07	-1.13
15712.00	89.880	159.820	6330.34	9019.90	-8821.63	2135.19	1625431.25	326902.10	39°23'23.833"N	80°49'31.190"W	9076.35	166.394	0.81	-0.13	-0.80
15801.00	90.280	158.800	6330.21	9108.89	-8904.89	2166.64	1625462.69	326818.85	39°23'23.015"N	80°49'30.774"W	9164.68	166.325	1.23	0.45	-1.15
15891.00	90.120	158.360	6329.90	9198.86	-8988.67	2199.51	1625495.56	326735.07	39°23'22.192"N	80°49'30.340"W	9253.87	166.250	0.52	-0.18	-0.49
15916.00	90.120	158.360	6329.84	9223.85	-9011.91	2208.72	1625504.77	326711.83	39°23'21.963"N	80°49'30.218"W	9278.63	166.229	0.00	0.00	0.00

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# Actual Wellpath Report

SHR-3G-HS AWP Proj: 15916'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-HS
Field	Tyler	Wellbore	SHR-3G-HS AWB
Facility	SHR-3 Pad		

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SHR-3G-HS BHL Rev-2		6331.00	-9009.34	2215.78	1625511.83	326714.40	39°23'21.990"N	80°49'30.129"W	point
SHR-3G-HS LP Rev-2		6331.00	-693.06	-811.10	1622485.11	335030.23	39°24'43.732"N	80°50'10.252"W	point
SHR-3G-HS LP Plat		6339.00	-512.01	-877.00	1622419.22	335211.27	39°24'45.511"N	80°50'11.126"W	point
SHR-3 Pad LL		6500.24	20.19	1.86	1623298.03	335743.44	39°24'50.900"N	80°50'00.030"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: SHR-3G-HS AWB Ref Wellpath: SHR-3G-HS AWP Proj: 15916'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.50	2112.50	Generic gyro - northseeking (Standard)	01 MS Gyro <12-1/4"> (100'-2094')	SHR-3G-HS AWB
2112.50	5051.00	NaviTrak (MagCorr)	02 BHI MWD <8-3/4"> (2112.5')(2225'-5051')	SHR-3G-HS AWB
5051.00	15891.00	NaviTrak (AT Curve Short Spaced)	03 BHI AT Curve <8-3/4"> (5051')(5141'-15891')	SHR-3G-HS AWB
15891.00	15916.00	Blind Drilling (std)	Projection to bit	SHR-3G-HS AWB

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# Actual Wellpath Report

SHR-3G-HS AWP Proj: 15916'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot G
Area	Tyler County, WV	Well	SHR-3G-HS
Field	Tyler	Wellbore	SHR-3G-HS AWB
Facility	SHR-3 Pad		

### COMMENTS

**Wellpath general comments**  
 API: 47-095-02198-0000  
 BHI Job #: 7024800  
 Rig: Precision 542  
 Duration: 3/6/2015-3/17/2015  
 MS Gyro <12-1/4"> (100'-2094')  
 BHI MWD <8-3/4"> (2112.5')(2225'-5051')  
 BHI AT Curve <8-3/4"> (5051')(5141'-15891')  
 Projected MD at TD: 15916'

47-095-02198P

SH236

11/10/2016

PLUGGING PERMIT CHECKLIST

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Plugging Permit

WW-4B

WW-4B signed by inspector

WW-4A

SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL

COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL

WW-9 PAGE 1 (NOTARIZED)

WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application

WW-9 GPP PAGE 1 and 2 if well effluent will be land applied

RECENT MYLAR PLAT OR WW-7

WELL RECORDS/COMPLETION REPORT

TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED

MUST HAVE VALID BOND IN OPERATOR'S NAME

CHECK FOR \$100 IF PIT IS USED

09/10/2021



Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

---

**Plugging H6A Horizontal Well Work Permit (API: 47-095-02198)**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Wed, Sep 8, 2021 at 2:31 PM

To: "Kendziora, Anthony" &lt;anthonykendziora@consolenergy.com&gt;, "Hoon, Raymond" &lt;raymondhoon@cnx.com&gt;, Derek Haught &lt;derek.m.haught@wv.gov&gt;, ljackson@wvassessor.com

I have attached a copy of the newly issued well [permit](#) number, "SHR3GHS", API: (47-095-02198). This will serve as your copy.

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**

**Environmental Resource Specialist 3**

**West Virginia Department of Environmental Protection**

**Office of Oil & Gas**

**601 57th St. SE**

**Charleston, WV 25304**

**(304) 926-0499 ext. 41115**


**(304) 926-0452 fax**

**[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)**

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**2 attachments**

 **IR-8 Blank.pdf**  
157K

 **47-095-02198 - Copy.pdf**  
2520K

**09/10/2021**