



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

Harold D. Ward, Cabinet Secretary
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 SHR3HHS
47-095-02196-00-00

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, is written over a white background.

James A. Martin
Chief

Operator's Well Number: SHR3HHS
Farm Name: NOBLE ENERGY, INC.
U.S. WELL NUMBER: 47-095-02196-00-00
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

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-3HHS
3) API Well No. 47-095-02196

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 * ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production * ___ or Underground storage ___) Deep ___ / Shallow * ___

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

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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

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8) Oil and Gas Inspector to be notified
Name Derek Haught
Address P.O. Box 85
Smithville WV 26178

9) Plugging Contractor
Name Conserv
Address 929 Charleston Road
Spencer, WV 25276

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

See attached

* WA - 35 INDICATES CEMENT TOP FOR
PRODUCTION CASING IS 3859'. THIS IS QUESTIONABLE
AS OTHER INFO. SUGGEST CEMENT CIRCULATED TO
THE SURFACE,

* BOW LOG WILL VERIFY CEMENT TOP.

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

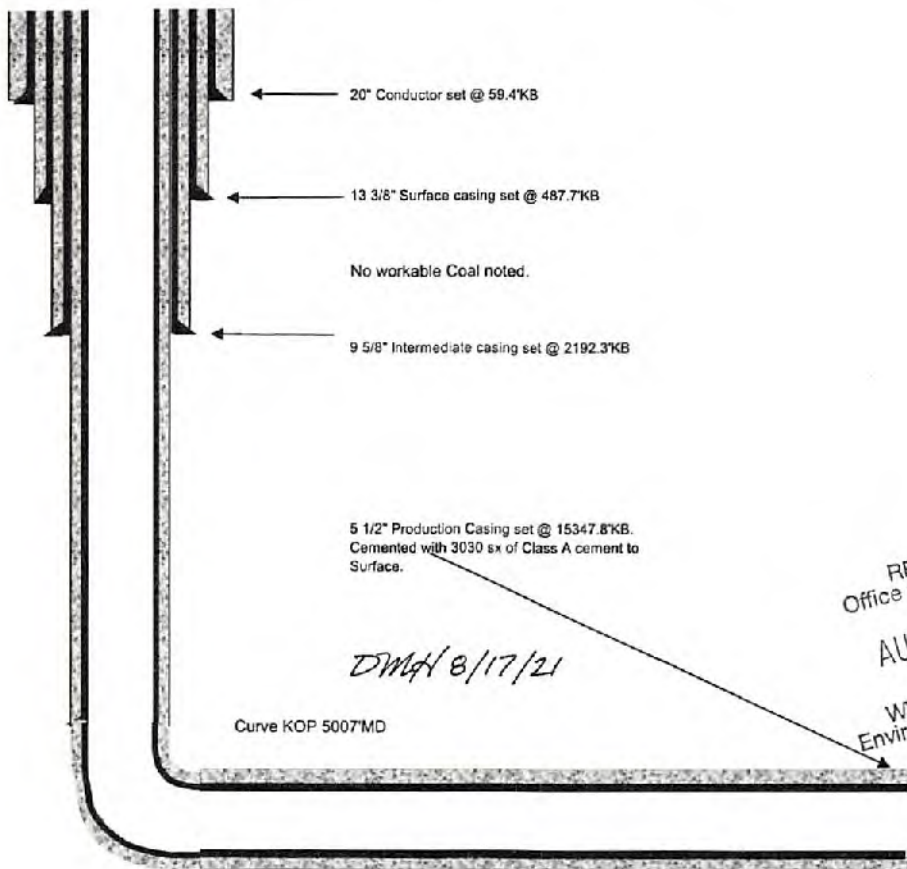
09/10/2021

CNX GAS, LLC	47-095-02196 P
Well Bore Diagram	
SHRL-3H-HS	

State: West Virginia County: Tyler Field: Shirley Current Completion: TD MD / TVD: Burket 15364 6263 Cased Hole Depth 15347.8 MD Elevations 751 GL 19.25 KB KOP: 5007 MD 5006 TVD ETOC: Surface 3030 sx	API #: 47-095-02196-00 Lease #: _____ Permit #: _____ Elev Corr 770.25 Date Updated 8/9/2021
--	---

Casing

Conductor	20"	Depth Set:	59.4		
Surface:	13 3/8"	Depth Set:	487.7	Grade and Weight:	J55 54.5# BTC Hole Size: 17.5"
Intermed:	9 5/8"	Depth Set:	2192.3	Grade and Weight:	HCK55 36# BTC Hole Size: 12.25"
Producer	5 1/2"	Depth Set:	15347.8	Grade and Weight:	P110ICY 20# BTC Hole Size: 8.5"
Tubing:		Depth Set:		Grade and Weight:	_____



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

API 47-095-02196 County Tyler District Centerville
Quad Shirley Pad Name SHR Field/Pool Name N/A
Farm name Noble Energy, Inc. Well Number SHR 3 HHS
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 4362751.18 Easting 514367.05
Landing Point of Curve Northing 4362549.00 Easting 514309.49
Bottom Hole Northing 4360090.55 Easting 515251.01

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 9/29/2014 Date drilling ceased na
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 47-095-02196 Farm name Noble Energy, Inc. Well number SHR 3 HHS

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"	487.7	New	HCK-55		Y
Coal							
Intermediate 1	13 3/8"	9 5/8"	3192.3	New	HCK-55		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5 1/2"	15,347.8	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	431	15.6	1.18	508.6		8
Coal							
Intermediate 1	Class A	841	15.6	1.18	992.4		8
Intermediate 2							
Intermediate 3							
Production	Class A	2400	14.2	1.26	3024.0	3859.0	8
Tubing							

Drillers TD (ft) 15,364 Loggers TD (ft) 15,339
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5051

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

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.

4 Centralizers used on the Surface String 20 Centralizers on Intermediate String (Bow string centralizers on first two joints then every third joint to 100' from surface).
 280 Centralizers on Production String (rigid bow string every joint to KOP, rigid bow string every third joint from KOP to top of cement).

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

09/10/2021

API 47-095 - 02196

Farm name Noble Energy, Inc.

Well number SHR 3 HHS

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 (bbls)	Amount of Nitrogen/other (units)
								Well not complete
								no data available

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Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

API 47- 095 - 02196 Farm name Noble Energy, Inc. Well number SHR 3 HHS

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6329	TVD	15364 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 DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		

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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 15317

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

Stimulating Company _____
Address _____ City _____ State _____ Zip _____

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 FRACFOCUS Registry

09/10/2021

SHR 3 JHS 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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47-095-02196P

WW-4A
Revised 6-07

1) Date: 8-16-2021
2) Operator's Well Number
SHRL 3H HS
3) API Well No.: 47 - 095 - 02196

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

4) Surface Owner(s) to be served:
(a) Name CNX Gas Company
Address 1000 Consol Energy Drive
Canonsburg PA 15317
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Derek Haught
Address PO box 85
Smithville WV 26178
Telephone 304-206-7613

5) (a) Coal Operator
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name N/A
Address _____
(c) Coal Lessee with Declaration
Name N/A
Address _____

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 persons named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

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WV Department of Environmental Protection

Well Operator CNX Gas Company LLC
By: Raymond Hoon
Its: Senior Project Manager
Address 1000 Consol Energy Dr
Canonsburg, PA 15317
Telephone 724-485-4000

Subscribed and sworn before me this 18th day of August, 2021
Michael L. Smith
My Commission Expires 6/19/22

Commonwealth of Pennsylvania - Notary Public
Michael L. Smith, Notary Public
Indiana County
My Commission expires June 1
Commission number 1155014
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.

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47-095-02196P

7019 1120 0001 5856 2969

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Canonsburg, PA 15317	
Certified Mail Fee	\$3.60
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
Total F	\$4.80
Sent to	CNX Gas Company LLC
Street	1000 Consol Energy Dr.
City, S	Canonsburg, PA 15317



Postmark Here
08/18/2021

PS Form 3800, April 2010 PSN 7530-02-000-9000

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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: DWH 8/17/21
- 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)

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.

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 Hoon
Company Official (Typed Name) Raymond Hoon
Company Official Title Senior Project Manager

WV Department of Environmental Protection

Subscribed and sworn before me this 18th day of August, 2021

Vicki L. Smith

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

My commission expires 6/19/22

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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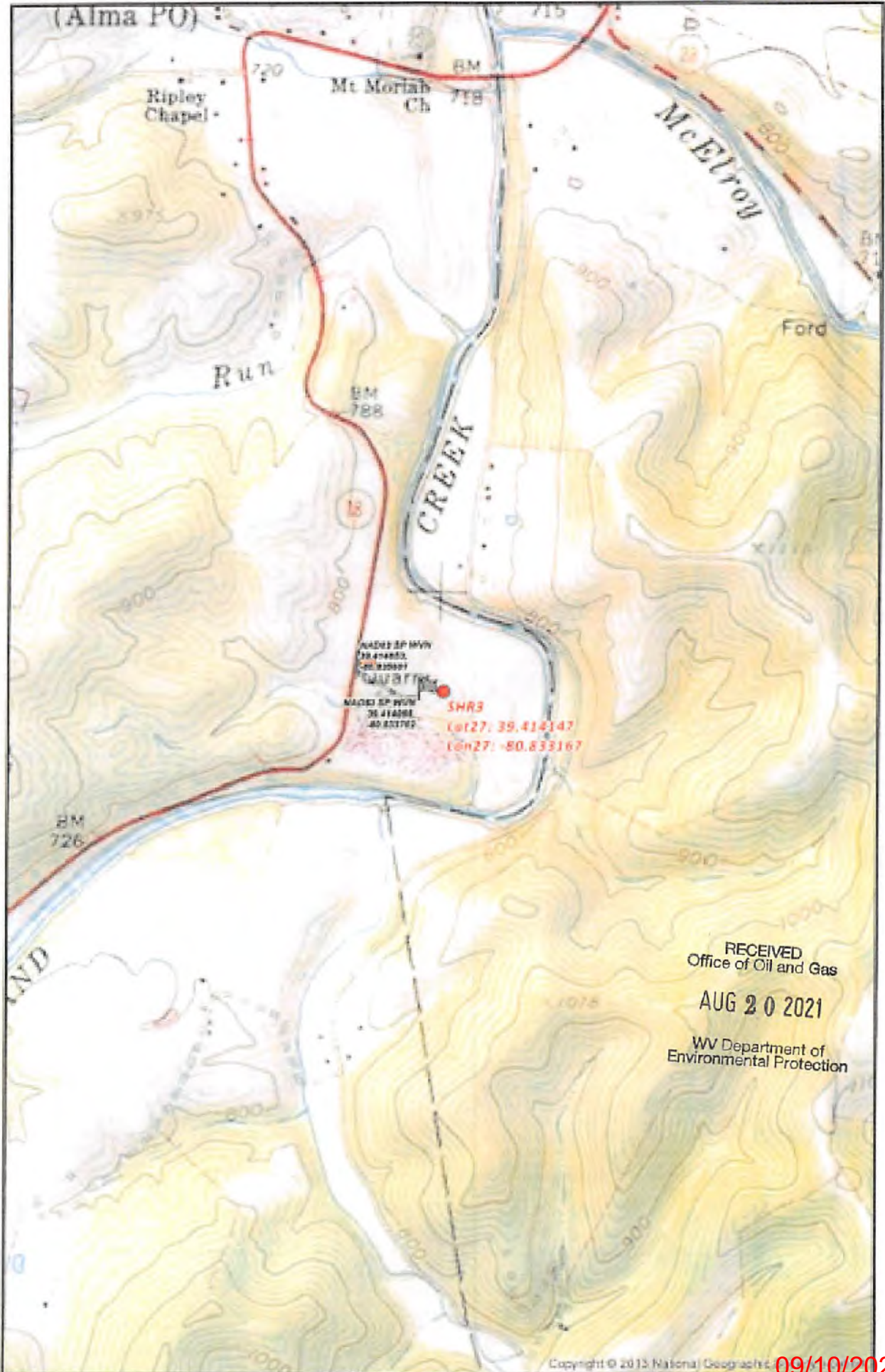
WV Department of
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Title: Oil & Gas Inspector

Date: 8/17/21

Field Reviewed? Yes No

47-095-02196P



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47-095-02196 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4709502196 WELL NO.: SHRL-3H-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: 4362751.180

UTM GPS EASTING: 514367.055 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 _____

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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

09/10/2021



Actual Wellpath Report

SHR-3H-HS AWP Proj: 15364'
Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-3H-HS
Field	Tyler	Wellbore	SHR-3H-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	06/Mar/2015 at 18:37
Convergence at slot	0.85° West	Database/Source file	WellArchitectEasternDB/SHR-3H-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	-22.52	17.73	1623315.76	335720.92	39°24'50.680"N	80°49'59.800"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	770.42ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	770.42ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot H)	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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A7-095-02196P



Actual Wellpath Report

SHR-3H-HS AWP Proj: 15364'
Page 2 of 9



REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (175 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 [%/100ft]	Build Rate [%/100ft]	Turn Rate [%/100ft]
0.00†	0.000	117.300	0.00	0.00	0.00	0.00	1623315.76	335720.92	39°24'50.680"N	80°49'59.800"W	0.00	0.000	0.00	0.00	0.00
18.50	0.000	117.300	18.50	0.00	0.00	0.00	1623315.76	335720.92	39°24'50.680"N	80°49'59.800"W	0.00	0.000	0.00	0.00	0.00
118.50	0.530	117.300	118.50	0.34	-0.21	0.41	1623316.17	335720.71	39°24'50.678"N	80°49'59.795"W	0.46	117.300	0.53	0.53	0.00
218.50	0.190	162.040	218.50	0.85	-0.58	0.87	1623316.63	335720.34	39°24'50.674"N	80°49'59.789"W	1.05	123.686	0.42	-0.34	44.74
318.50	0.190	42.650	318.50	0.94	-0.62	1.04	1623316.80	335720.30	39°24'50.674"N	80°49'59.787"W	1.21	120.793	0.33	0.00	-119.39
418.50	0.220	31.560	418.50	0.74	-0.33	1.25	1623317.01	335720.59	39°24'50.677"N	80°49'59.784"W	1.29	104.891	0.05	0.03	-11.09
518.50	0.210	81.930	518.50	0.66	-0.14	1.53	1623317.29	335720.78	39°24'50.679"N	80°49'59.780"W	1.54	95.331	0.18	-0.01	50.37
618.50	0.160	114.370	618.49	0.79	-0.17	1.84	1623317.60	335720.75	39°24'50.679"N	80°49'59.777"W	1.85	95.427	0.11	-0.05	32.44
718.50	0.230	60.980	718.49	0.86	-0.14	2.14	1623317.90	335720.78	39°24'50.679"N	80°49'59.773"W	2.15	93.606	0.19	0.07	-53.39
818.50	0.510	41.570	818.49	0.62	0.30	2.61	1623318.37	335721.22	39°24'50.683"N	80°49'59.767"W	2.63	83.553	0.30	0.28	-19.41
918.50	0.480	78.690	918.49	0.47	0.71	3.32	1623319.08	335721.63	39°24'50.687"N	80°49'59.758"W	3.39	77.920	0.32	-0.03	37.12
1018.50	0.440	73.310	1018.49	0.55	0.90	4.10	1623319.86	335721.82	39°24'50.689"N	80°49'59.748"W	4.20	77.576	0.06	-0.04	-5.38
1118.50	0.220	198.240	1118.48	0.73	0.83	4.41	1623320.17	335721.75	39°24'50.689"N	80°49'59.744"W	4.48	79.321	0.59	-0.22	124.93
1218.50	0.410	241.030	1218.48	0.93	0.48	4.03	1623319.79	335721.40	39°24'50.685"N	80°49'59.749"W	4.06	83.280	0.29	0.19	42.79
1318.50	0.210	255.930	1318.48	0.97	0.26	3.54	1623319.20	335721.18	39°24'50.683"N	80°49'59.755"W	3.55	85.845	0.21	-0.20	14.90
1418.50	0.190	313.460	1418.48	0.80	0.33	3.24	1623319.00	335721.25	39°24'50.684"N	80°49'59.759"W	3.26	84.247	0.19	-0.02	57.53
1518.50	0.190	16.750	1518.48	0.52	0.60	3.17	1623318.93	335721.52	39°24'50.686"N	80°49'59.760"W	3.23	79.293	0.20	0.00	63.29
1618.50	0.290	13.460	1618.48	0.18	1.00	3.28	1623319.04	335721.92	39°24'50.690"N	80°49'59.758"W	3.43	72.963	0.10	0.10	-3.29
1718.50	0.360	82.630	1718.48	0.03	1.29	3.65	1623319.41	335722.21	39°24'50.693"N	80°49'59.754"W	3.87	70.514	0.37	0.07	69.17
1818.50	0.360	99.640	1818.48	0.26	1.28	4.27	1623320.03	335722.20	39°24'50.693"N	80°49'59.746"W	4.46	73.329	0.11	0.00	17.01
1918.50	0.420	129.110	1918.47	0.73	0.99	4.86	1623320.62	335721.91	39°24'50.691"N	80°49'59.738"W	4.96	78.441	0.21	0.06	29.47
2018.50	0.370	168.970	2018.47	1.36	0.45	5.21	1623320.97	335721.37	39°24'50.685"N	80°49'59.734"W	5.23	85.100	0.27	-0.05	39.86
2118.50	0.300	229.690	2118.47	1.77	-0.04	5.07	1623320.83	335720.88	39°24'50.680"N	80°49'59.735"W	5.07	90.447	0.34	-0.07	60.72
2129.50	0.280	225.590	2129.47	1.79	0.08	5.03	1623320.79	335720.84	39°24'50.680"N	80°49'59.736"W	5.03	90.877	0.26	-0.18	-37.27
2200.00	0.420	168.350	2200.47	2.11	0.45	4.96	1623320.72	335720.47	39°24'50.676"N	80°49'59.737"W	4.98	95.192	0.51	0.20	-81.19
2223.00	1.030	170.710	2223.47	2.71	-0.74	5.01	1623320.77	335720.18	39°24'50.673"N	80°49'59.736"W	5.06	98.371	2.65	2.65	10.26
2273.00	1.900	172.250	2273.47	3.51	-2.00	5.19	1623320.95	335718.92	39°24'50.661"N	80°49'59.733"W	5.57	111.077	1.74	1.74	3.08
2362.00	2.690	236.280	2362.49	5.45	-4.62	3.66	1623319.42	335716.30	39°24'50.635"N	80°49'59.753"W	5.89	141.664	2.84	0.89	71.94
2452.00	1.140	283.060	2452.84	5.85	-5.59	1.03	1623316.79	335715.33	39°24'50.625"N	80°49'59.786"W	5.69	169.594	2.31	-1.72	51.98
2542.00	1.090	63.860	2541.84	5.03	-5.01	0.92	1623316.68	335715.91	39°24'50.631"N	80°49'59.787"W	5.10	169.564	2.33	-0.06	156.44

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (175 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]
2631.00	1.120	85.010	2630.82	5.16	-4.57	2.55	1623318.31	335716.35	39°24'50.635"N	80°49'59.767"W	5.23	150.817	0.46	0.03	23.76
2721.00	0.410	105.360	2720.81	5.58	-4.57	3.74	1623319.50	335716.35	39°24'50.635"N	80°49'59.752"W	5.91	140.756	0.83	-0.79	22.61
2811.00	0.390	140.290	2810.81	6.05	-4.90	4.24	1623320.00	335716.02	39°24'50.632"N	80°49'59.745"W	6.48	139.084	0.27	-0.02	38.81
2900.00	0.410	348.660	2899.81	6.02	-4.82	4.37	1623320.13	335716.10	39°24'50.633"N	80°49'59.743"W	6.51	137.756	0.87	0.02	-170.37
2990.00	0.280	308.480	2989.81	5.52	-4.36	4.14	1623319.90	335716.56	39°24'50.637"N	80°49'59.746"W	6.01	136.518	0.30	-0.14	-44.64
3079.00	0.060	17.310	3078.81	5.29	-4.18	3.98	1623319.74	335716.74	39°24'50.639"N	80°49'59.748"W	5.78	136.417	0.30	-0.25	77.34
3169.00	0.260	290.430	3168.81	5.12	-4.07	3.80	1623319.56	335716.85	39°24'50.640"N	80°49'59.751"W	5.57	136.913	0.29	0.22	-96.53
3259.00	0.090	43.160	3258.81	4.96	-3.94	3.66	1623319.42	335716.98	39°24'50.642"N	80°49'59.753"W	5.38	137.132	0.34	-0.19	125.26
3348.00	0.500	9.520	3347.80	4.59	-3.51	3.77	1623319.53	335717.41	39°24'50.646"N	80°49'59.751"W	5.15	132.934	0.48	0.46	-37.80
3438.00	0.170	17.550	3437.80	4.14	-3.00	3.88	1623319.64	335717.92	39°24'50.651"N	80°49'59.750"W	4.90	127.685	0.37	-0.37	8.92
3528.00	0.360	300.190	3527.80	3.82	-2.73	3.67	1623319.43	335718.19	39°24'50.654"N	80°49'59.753"W	4.58	126.577	0.40	0.21	-85.96
3618.00	0.250	236.960	3617.80	3.65	-2.69	3.27	1623319.03	335718.23	39°24'50.654"N	80°49'59.758"W	4.23	129.495	0.37	-0.12	-70.26
3707.00	0.390	169.310	3706.80	3.99	-3.10	3.16	1623318.92	335717.82	39°24'50.650"N	80°49'59.759"W	4.42	134.413	0.42	0.16	-76.01
3797.00	0.940	79.120	3796.79	4.41	-3.26	3.94	1623319.70	335717.66	39°24'50.648"N	80°49'59.749"W	5.11	129.570	1.13	0.61	-100.21
3886.00	0.840	80.860	3885.78	4.65	-3.02	5.30	1623321.06	335717.90	39°24'50.651"N	80°49'59.732"W	6.10	119.628	0.12	-0.11	1.96
3976.00	0.590	110.610	3975.78	5.07	-3.07	6.39	1623322.15	335717.85	39°24'50.651"N	80°49'59.718"W	7.09	115.699	0.49	-0.28	33.06
4065.00	0.380	140.370	4064.77	5.65	-3.46	7.00	1623322.76	335717.46	39°24'50.647"N	80°49'59.710"W	7.81	116.304	0.36	-0.24	33.44
4155.00	0.250	117.550	4154.77	6.08	-3.78	7.37	1623323.13	335717.14	39°24'50.644"N	80°49'59.705"W	8.28	117.176	0.20	-0.14	-25.36
4244.00	0.620	214.320	4243.77	6.50	-4.27	7.27	1623323.03	335716.65	39°24'50.639"N	80°49'59.707"W	8.43	120.433	0.78	0.42	108.73
4334.00	0.610	211.220	4333.77	7.08	-5.08	6.75	1623322.51	335715.84	39°24'50.631"N	80°49'59.713"W	8.45	126.992	0.04	-0.01	-3.44
4423.00	0.540	245.100	4422.76	7.42	-5.66	6.12	1623321.88	335715.26	39°24'50.625"N	80°49'59.721"W	8.34	132.782	0.38	-0.08	38.07
4513.00	0.470	0.520	4512.76	7.11	-5.47	5.74	1623321.50	335715.45	39°24'50.627"N	80°49'59.726"W	7.93	133.643	0.95	-0.08	128.24
4603.00	0.660	354.130	4602.76	6.26	-4.59	5.69	1623321.45	335716.33	39°24'50.635"N	80°49'59.727"W	7.31	128.888	0.22	0.21	-7.10
4692.00	0.550	308.960	4691.75	5.39	-3.81	5.31	1623321.06	335717.11	39°24'50.643"N	80°49'59.732"W	6.53	125.686	0.53	-0.12	-50.72
4782.00	0.510	299.330	4781.75	4.72	-3.34	4.62	1623320.38	335717.58	39°24'50.648"N	80°49'59.741"W	5.70	125.882	0.11	-0.04	-10.74
4871.00	1.230	267.530	4870.74	4.13	-3.19	3.32	1623319.08	335717.73	39°24'50.649"N	80°49'59.757"W	4.60	133.849	0.94	0.81	-35.73
4961.00	1.920	281.520	4960.70	3.05	-2.93	0.88	1623316.64	335717.99	39°24'50.651"N	80°49'59.788"W	3.06	163.322	0.87	0.77	15.54
5007.00	3.500	290.300	5006.65	1.74	-2.29	-1.19	1623314.57	335718.63	39°24'50.657"N	80°49'59.815"W	2.58	207.549	3.54	3.43	19.30
5051.00	4.050	290.550	5050.55	-0.14	-1.27	-3.91	1623311.85	335719.65	39°24'50.667"N	80°49'59.850"W	4.11	251.938	1.25	1.25	0.36
5141.00	8.760	287.070	5139.97	-6.34	1.85	-13.44	1623302.32	335722.77	39°24'50.696"N	80°49'59.972"W	13.57	277.858	5.25	5.23	-3.87

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (175 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]
5230.00	13.480	287.500	5227.27	-16.75	6.97	-29.82	1623285.94	335727.89	39°24'50.744"N	80°50'00.181"W	30.62	283.149	5.30	5.30	0.48
5320.00	18.320	275.700	5313.83	-29.28	11.53	-53.92	1623261.84	335732.45	39°24'50.786"N	80°50'00.489"W	55.14	282.069	6.44	5.38	-13.11
5409.00	22.830	274.920	5397.13	-42.62	14.40	-85.06	1623230.71	335735.32	39°24'50.810"N	80°50'00.886"W	86.27	279.610	5.08	5.07	-0.88
5499.00	23.680	274.410	5479.81	-57.45	17.29	-120.47	1623195.29	335738.21	39°24'50.833"N	80°50'01.338"W	121.71	278.166	0.97	0.94	-0.57
5588.00	23.770	270.610	5561.30	-71.15	18.85	-156.23	1623159.54	335739.77	39°24'50.843"N	80°50'01.794"W	157.36	276.881	1.72	0.10	-4.27
5678.00	23.840	252.180	5643.76	-78.24	13.47	-191.73	1623124.04	335734.39	39°24'50.785"N	80°50'02.245"W	192.21	274.020	8.24	0.08	-20.48
5768.00	23.630	239.340	5726.20	-75.59	-1.30	-224.59	1623091.19	335719.62	39°24'50.634"N	80°50'02.661"W	224.59	269.668	5.74	-0.23	-14.27
5857.00	23.550	226.780	5807.81	-65.27	-22.59	-252.90	1623062.87	335698.34	39°24'50.420"N	80°50'03.018"W	253.91	264.897	5.64	-0.09	-14.11
5947.00	26.710	207.310	5889.42	-44.43	-52.93	-275.33	1623040.44	335667.99	39°24'50.116"N	80°50'03.298"W	280.37	259.118	9.79	3.51	-21.63
6037.00	34.020	195.480	5967.10	-10.14	-95.26	-291.37	1623024.41	335625.66	39°24'49.696"N	80°50'03.494"W	306.54	251.895	10.46	8.12	-13.14
6127.00	43.020	185.930	6037.50	38.12	-150.22	-301.29	1623014.49	335570.70	39°24'49.151"N	80°50'03.610"W	336.66	243.499	11.96	10.00	-10.61
6216.00	51.900	176.060	6097.69	99.28	-215.57	-302.02	1623013.76	335505.36	39°24'48.505"N	80°50'03.607"W	371.06	234.482	12.88	9.98	-11.09
6306.00	62.480	171.010	6146.41	172.72	-290.57	-293.32	1623022.45	335430.37	39°24'47.765"N	80°50'03.482"W	412.88	225.270	12.66	11.76	-5.61
6395.00	64.370	168.790	6186.23	251.13	-368.92	-279.35	1623036.42	335352.02	39°24'46.993"N	80°50'03.289"W	462.75	217.134	3.08	2.12	-2.49
6485.00	71.100	166.550	6220.32	333.62	-450.23	-261.54	1623054.23	335270.72	39°24'46.192"N	80°50'03.047"W	520.68	210.133	7.82	7.48	-2.49
6575.00	77.750	164.910	6244.47	419.83	-534.19	-240.16	1623075.61	335186.76	39°24'45.366"N	80°50'02.759"W	585.70	204.208	7.59	7.39	-1.82
6664.00	84.390	163.740	6258.28	507.46	-618.79	-216.42	1623099.36	335102.16	39°24'44.533"N	80°50'02.440"W	655.54	199.277	7.57	7.46	-1.31
6754.00	89.540	161.880	6263.04	597.19	-704.62	-189.86	1623125.91	335016.34	39°24'43.689"N	80°50'02.085"W	729.75	195.080	6.08	5.72	-2.07
6843.00	90.150	158.790	6263.28	686.17	-788.42	-159.91	1623155.85	334932.55	39°24'42.865"N	80°50'01.688"W	804.47	191.466	3.54	0.69	-3.47
6933.00	89.970	158.570	6263.19	776.15	-872.26	-127.19	1623188.57	334848.71	39°24'42.041"N	80°50'01.255"W	881.48	188.296	0.32	-0.20	-0.24
7023.00	89.910	157.730	6263.00	866.10	-955.79	-93.70	1623222.07	334765.18	39°24'41.221"N	80°50'00.813"W	960.37	185.599	0.94	-0.07	-0.93
7112.00	89.910	159.190	6263.00	955.07	-1038.57	-61.02	1623254.74	334682.41	39°24'40.407"N	80°50'00.381"W	1040.36	183.363	1.64	0.00	1.64
7202.00	90.000	158.610	6263.00	1044.06	-1122.54	-28.62	1623287.14	334598.44	39°24'39.582"N	80°49'59.952"W	1122.90	181.461	0.65	0.10	-0.64
7291.00	90.030	158.490	6263.00	1138.05	-1205.37	3.92	1623319.68	334515.61	39°24'38.769"N	80°49'59.522"W	1205.38	179.813	0.14	0.03	-0.13
7381.00	89.850	161.190	6263.00	1232.04	-1289.85	34.94	1623350.70	334431.14	39°24'37.938"N	80°49'59.111"W	1290.32	178.448	3.01	-0.20	3.00
7470.00	90.220	158.960	6263.00	1326.03	-1373.52	65.27	1623381.02	334347.48	39°24'37.116"N	80°49'58.709"W	1375.07	177.279	2.54	0.42	-2.51
7560.00	90.180	159.470	6263.00	1419.02	-1457.66	97.21	1623412.96	334263.34	39°24'36.289"N	80°49'58.286"W	1460.90	176.185	0.57	-0.04	0.57
7650.00	90.000	158.900	6263.00	1492.99	-1541.78	129.19	1623444.94	334179.22	39°24'35.462"N	80°49'57.863"W	1547.19	175.210	0.66	-0.20	-0.63
7739.00	90.090	159.860	6262.98	1581.98	-1625.08	160.53	1623476.28	334095.93	39°24'34.644"N	80°49'57.448"W	1632.99	174.359	1.08	0.10	1.08
7829.00	90.340	160.280	6262.65	1671.98	-1709.69	191.21	1623506.96	334011.32	39°24'33.812"N	80°49'57.041"W	1720.35	173.619	0.54	0.28	0.47

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47-095-02196P

REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (175 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]
7918.00	90.180	160.120	6262.24	1760.98	-1793.43	221.35	1623537.10	333927.59	39°24'32.989"N	80°49'56.641"W	1807.04	172.964	0.25	-0.18	-0.18
8008.00	90.250	159.910	6261.90	1850.98	-1878.01	252.11	1623567.86	333843.01	39°24'32.158"N	80°49'56.233"W	1894.86	172.354	0.25	0.08	-0.23
8097.00	90.310	162.590	6261.47	1939.95	-1962.28	280.72	1623596.46	333758.75	39°24'31.329"N	80°49'55.853"W	1982.25	171.859	3.01	0.07	3.01
8187.00	90.000	164.490	6261.23	2029.77	-2048.58	306.22	1623621.96	333672.45	39°24'30.480"N	80°49'55.512"W	2071.34	171.498	2.14	-0.34	2.11
8276.00	89.880	163.060	6261.32	2118.58	-2134.04	331.09	1623646.83	333587.00	39°24'29.639"N	80°49'55.179"W	2159.57	171.181	1.61	-0.13	-1.61
8366.00	89.910	161.400	6261.48	2208.51	-2219.74	358.55	1623674.29	333501.30	39°24'28.796"N	80°49'54.813"W	2248.51	170.824	1.84	0.03	-1.84
8456.00	90.150	158.190	6261.44	2298.49	-2304.19	389.63	1623705.37	333416.86	39°24'27.966"N	80°49'54.401"W	2336.90	170.402	3.58	0.27	-3.57
8545.00	89.940	154.260	6261.37	2387.28	-2385.62	425.51	1623741.24	333335.43	39°24'27.167"N	80°49'53.929"W	2423.27	169.887	4.42	-0.24	-4.42
8634.00	90.060	152.980	6261.37	2475.73	-2465.35	465.05	1623780.78	333255.70	39°24'26.384"N	80°49'53.410"W	2508.83	169.318	1.44	0.13	-1.44
8724.00	89.570	154.160	6261.66	2565.16	-2545.94	505.11	1623820.84	333175.12	39°24'25.594"N	80°49'52.884"W	2595.57	168.778	1.42	-0.54	1.31
8813.00	89.880	154.580	6262.08	2653.73	-2626.18	543.60	1623859.34	333094.88	39°24'24.807"N	80°49'52.379"W	2681.86	168.305	0.59	0.35	0.47
8903.00	89.420	156.790	6262.63	2743.47	-2708.19	580.66	1623896.39	333012.87	39°24'24.002"N	80°49'51.891"W	2769.74	167.899	2.51	-0.51	2.46
8993.00	89.510	158.460	6263.48	2833.38	-2791.41	614.92	1623930.64	332929.66	39°24'23.184"N	80°49'51.439"W	2858.34	167.577	1.86	0.10	1.86
9082.00	89.600	163.620	6264.17	2922.34	-2875.55	643.82	1623959.55	332845.52	39°24'22.357"N	80°49'51.055"W	2946.75	167.380	5.80	0.10	5.80
9171.00	89.110	165.530	6265.17	3011.04	-2961.34	667.49	1623983.22	332759.74	39°24'21.513"N	80°49'50.737"W	3035.63	167.298	2.22	-0.55	2.15
9261.00	89.660	165.650	6266.13	3100.61	-3048.50	689.89	1624005.61	332672.59	39°24'20.654"N	80°49'50.436"W	3125.59	167.249	0.63	0.61	0.13
9350.00	89.970	164.030	6266.42	3189.29	-3134.40	713.16	1624028.88	332586.69	39°24'19.809"N	80°49'50.123"W	3214.51	167.182	1.85	0.35	-1.82
9440.00	90.030	161.740	6266.42	3279.17	-3220.41	739.65	1624055.37	332500.69	39°24'18.963"N	80°49'49.769"W	3304.26	167.065	2.55	0.07	-2.54
9529.00	90.340	159.140	6266.33	3368.16	-3304.26	769.44	1624085.16	332416.84	39°24'18.139"N	80°49'49.374"W	3392.67	166.892	2.94	0.35	-2.92
9619.00	89.690	157.710	6266.21	3458.11	-3387.88	802.73	1624118.45	332333.23	39°24'17.317"N	80°49'48.934"W	3481.68	166.670	2.02	-0.72	-1.89
9708.00	89.880	157.050	6266.55	3547.01	-3469.95	837.16	1624152.87	332251.16	39°24'16.511"N	80°49'48.480"W	3569.51	166.436	0.49	0.21	-0.44
9798.00	90.250	157.620	6266.44	3636.89	-3552.84	872.21	1624187.92	332168.27	39°24'15.697"N	80°49'48.018"W	3658.34	166.207	0.42	0.41	0.07
9887.00	90.280	158.830	6266.93	3725.83	-3635.26	905.78	1624221.49	332085.85	39°24'14.887"N	80°49'47.575"W	3746.41	166.009	1.63	0.03	1.63
9977.00	90.340	165.820	6266.44	3815.70	-3720.89	933.29	1624249.00	332000.23	39°24'14.045"N	80°49'47.208"W	3836.15	165.919	8.07	0.07	8.07
10067.00	89.850	168.730	6265.29	3904.96	-3808.67	953.11	1624268.82	331912.46	39°24'13.181"N	80°49'46.939"W	3926.12	165.950	3.28	-0.54	3.23
10156.00	90.180	164.840	6265.27	3993.32	-3895.30	973.45	1624289.16	331825.83	39°24'12.328"N	80°49'46.664"W	4015.09	165.969	4.39	0.37	-4.37
10246.00	90.180	163.810	6264.99	4083.07	-3981.95	997.77	1624313.48	331739.19	39°24'11.475"N	80°49'46.338"W	4105.05	165.933	1.14	0.00	-1.14
10335.00	90.430	162.820	6264.51	4171.91	-4067.20	1023.32	1624339.03	331653.94	39°24'10.636"N	80°49'45.996"W	4193.96	165.877	1.15	0.28	-1.11
10425.00	89.940	161.100	6264.22	4261.86	-4152.77	1051.19	1624366.89	331568.38	39°24'09.794"N	80°49'45.625"W	4283.75	165.795	1.99	-0.54	-1.91
10514.00	90.430	160.220	6263.94	4350.85	-4236.75	1080.67	1624396.37	331484.40	39°24'08.969"N	80°49'45.234"W	4372.40	165.691	1.13	0.55	-0.99

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (175 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]
10604.00	89.910	158.160	6263.67	4440.84	-4320.87	1112.64	1624428.34	331400.28	39°24'08.142"N	80°49'44.811"W	4461.83	165.560	2.36	-0.58	-2.29
10694.00	90.370	158.380	6263.45	4530.79	-4404.47	1145.96	1624461.66	331316.69	39°24'07.321"N	80°49'44.371"W	4551.11	165.416	0.57	0.51	0.24
10783.00	90.920	161.470	6262.45	4619.78	-4488.05	1176.50	1624492.20	331233.11	39°24'06.499"N	80°49'43.966"W	4639.69	165.311	3.53	0.62	3.47
10873.00	90.520	162.810	6261.32	4709.70	-4573.71	1204.10	1624519.80	331147.46	39°24'05.657"N	80°49'43.598"W	4729.55	165.251	1.55	-0.44	1.49
10962.00	90.520	164.270	6260.51	4798.53	-4659.05	1229.32	1624545.01	331062.12	39°24'04.817"N	80°49'43.261"W	4818.51	165.219	1.64	0.00	1.64
11052.00	90.770	163.460	6259.50	4888.32	-4745.50	1254.33	1624570.02	330975.68	39°24'03.967"N	80°49'42.926"W	4908.47	165.194	0.94	0.28	-0.90
11142.00	91.110	163.130	6258.02	4978.16	-4831.69	1280.19	1624595.88	330889.49	39°24'03.119"N	80°49'42.580"W	4998.41	165.160	0.53	0.38	-0.37
11231.00	89.230	158.440	6257.75	5067.12	-4915.70	1309.48	1624625.16	330805.48	39°24'02.293"N	80°49'42.192"W	5087.13	165.084	5.68	-2.11	-5.27
11321.00	90.340	158.750	6258.09	5157.09	-4999.50	1342.32	1624658.01	330721.70	39°24'01.469"N	80°49'41.757"W	5176.56	164.971	1.28	1.23	0.34
11411.00	90.150	159.110	6257.71	5247.07	-5083.48	1374.68	1624690.36	330637.72	39°24'00.644"N	80°49'41.330"W	5266.07	164.868	0.45	-0.21	0.40
11500.00	89.970	158.670	6257.61	5336.06	-5166.50	1406.73	1624722.41	330554.70	39°23'59.828"N	80°49'40.906"W	5354.59	164.769	0.53	-0.20	-0.49
11589.00	89.170	157.350	6258.28	5425.00	-5249.02	1440.05	1624755.74	330472.18	39°23'59.018"N	80°49'40.466"W	5442.98	164.659	1.73	-0.90	-1.48
11679.00	89.380	155.570	6259.42	5514.81	-5331.52	1475.99	1624791.67	330389.69	39°23'58.208"N	80°49'39.992"W	5532.06	164.526	1.99	0.23	-1.98
11769.00	89.660	153.920	6260.18	5604.43	-5412.92	1514.39	1624830.07	330308.30	39°23'57.409"N	80°49'39.488"W	5620.77	164.370	1.86	0.31	-1.83
11858.00	89.420	154.430	6260.89	5692.97	-5493.03	1553.16	1624868.83	330228.19	39°23'56.623"N	80°49'38.979"W	5708.38	164.212	0.63	-0.27	0.57
11948.00	89.720	154.840	6261.57	5782.57	-5574.35	1591.71	1624907.39	330146.88	39°23'55.825"N	80°49'38.473"W	5797.14	164.064	0.56	0.33	0.46
12038.00	89.910	154.460	6261.86	5872.18	-5655.68	1630.25	1624945.92	330065.55	39°23'55.027"N	80°49'37.967"W	5885.95	163.920	0.47	0.21	-0.42
12127.00	89.690	157.540	6262.17	5960.95	-5736.97	1666.44	1624982.11	329984.26	39°23'54.229"N	80°49'37.490"W	5974.10	163.803	3.47	-0.25	3.46
12217.00	89.750	160.360	6262.61	6050.92	-5820.96	1698.76	1625014.43	329900.28	39°23'53.403"N	80°49'37.063"W	6063.77	163.731	3.13	0.07	3.13
12306.00	89.750	161.030	6263.00	6139.92	-5904.95	1728.19	1625043.85	329816.29	39°23'52.578"N	80°49'36.672"W	6152.65	163.687	0.75	0.00	0.75
12396.00	90.090	161.760	6263.12	6229.89	-5990.25	1756.90	1625072.56	329731.00	39°23'51.739"N	80°49'36.291"W	6242.58	163.654	0.89	0.38	0.81
12485.00	90.650	164.450	6263.55	6318.77	-6075.40	1782.76	1625098.42	329645.85	39°23'50.901"N	80°49'35.945"W	6331.56	163.646	3.09	0.63	3.02
12575.00	89.910	163.050	6263.85	6408.50	-6161.80	1807.95	1625123.61	329559.46	39°23'50.051"N	80°49'35.608"W	6421.56	163.648	1.76	-0.82	-1.56
12665.00	90.000	160.500	6263.88	6498.50	-6247.28	1836.09	1625151.75	329473.98	39°23'49.210"N	80°49'35.234"W	6511.51	163.622	2.84	0.10	-2.83
12755.00	89.820	161.070	6263.82	6588.50	-6332.26	1865.71	1625181.37	329389.00	39°23'48.375"N	80°49'34.840"W	6601.40	163.583	0.66	-0.20	0.63
12844.00	90.120	163.640	6263.66	6677.40	-6417.07	1892.69	1625208.34	329304.20	39°23'47.541"N	80°49'34.481"W	6690.37	163.567	2.91	0.34	2.89
12934.00	90.220	166.890	6263.00	6767.00	-6504.10	1915.57	1625231.23	329217.18	39°23'46.684"N	80°49'34.173"W	6780.32	163.589	3.61	0.11	3.61
13023.00	90.000	166.330	6262.93	6855.50	-6590.68	1936.18	1625251.84	329130.60	39°23'45.831"N	80°49'33.894"W	6869.19	163.628	0.68	-0.25	-0.63
13113.00	90.400	164.480	6262.61	6945.60	-6677.77	1958.86	1625274.52	329043.52	39°23'44.974"N	80°49'33.589"W	6959.15	163.651	2.10	0.44	-2.06
13202.00	90.280	159.880	6261.08	7033.93	-6762.47	1986.09	1625301.74	328958.81	39°23'44.141"N	80°49'33.226"W	7048.09	163.633	5.17	-0.13	-5.17

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Actual Wellpath Report

SHR-3H-HS AWP Proj: 15364'
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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (175 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]
13292.00	90.280	156.110	6260.64	7123.86	-6845.90	2019.81	1625335.46	328875.39	39°23'43.321"N	80°49'32.781"W	7137.65	163.562	4.19	0.00	-4.19
13381.00	90.090	153.960	6260.36	7212.52	-6926.58	2057.37	1625373.02	328794.72	39°23'42.529"N	80°49'32.288"W	7225.67	163.457	2.43	-0.21	-2.42
13471.00	90.220	152.150	6260.11	7301.85	-7006.81	2098.15	1625413.79	328714.50	39°23'41.742"N	80°49'31.753"W	7314.20	163.330	2.02	0.14	-2.01
13560.00	90.180	157.210	6259.80	7390.44	-7087.23	2136.20	1625451.84	328634.08	39°23'40.953"N	80°49'31.253"W	7402.17	163.226	5.69	-0.04	5.69
13650.00	90.250	158.440	6259.46	7480.37	-7170.57	2170.17	1625485.81	328550.74	39°23'40.135"N	80°49'30.805"W	7491.78	163.162	1.37	0.08	1.37
13740.00	90.370	159.900	6258.98	7570.36	-7254.68	2202.17	1625517.81	328466.63	39°23'39.308"N	80°49'30.382"W	7581.56	163.114	1.63	0.13	1.62
13829.00	90.310	161.220	6258.45	7659.35	-7338.61	2231.79	1625547.43	328382.71	39°23'38.483"N	80°49'29.989"W	7670.47	163.085	1.48	-0.07	1.48
13919.00	90.150	160.720	6258.09	7749.34	-7423.69	2261.13	1625576.77	328297.64	39°23'37.646"N	80°49'29.599"W	7760.40	163.060	0.58	-0.18	-0.56
14008.00	90.220	156.970	6257.80	7838.30	-7506.67	2293.25	1625608.88	328214.65	39°23'36.831"N	80°49'29.174"W	7849.15	163.012	4.21	0.08	-4.21
14098.00	90.280	157.150	6257.41	7928.18	-7589.56	2328.33	1625643.96	328131.78	39°23'36.017"N	80°49'28.712"W	7938.67	162.945	0.21	0.07	0.20
14187.00	90.150	157.560	6257.07	8017.09	-7671.69	2362.59	1625678.22	328049.64	39°23'35.210"N	80°49'28.260"W	8027.25	162.883	0.48	-0.15	0.46
14277.00	90.280	159.910	6256.74	8107.06	-7755.56	2395.23	1625710.86	327965.78	39°23'34.386"N	80°49'27.829"W	8117.01	162.837	2.62	0.14	2.61
14367.00	89.780	156.480	6256.69	8197.00	-7839.11	2428.66	1625744.28	327882.24	39°23'33.565"N	80°49'27.387"W	8206.70	162.786	3.85	-0.56	-3.81
14456.00	89.880	154.900	6256.95	8285.75	-7920.21	2465.29	1625780.92	327801.14	39°23'32.769"N	80°49'26.906"W	8295.03	162.710	1.78	0.11	-1.78
14546.00	90.180	156.450	6256.91	8375.49	-8002.22	2502.36	1625817.99	327719.13	39°23'31.964"N	80°49'26.418"W	8384.35	162.635	1.75	0.33	1.72
14636.00	90.950	158.850	6256.02	8465.40	-8085.45	2536.58	1625852.21	327635.91	39°23'31.147"N	80°49'25.967"W	8474.00	162.582	2.80	0.86	2.67
14725.00	89.850	159.250	6255.40	8554.38	-8168.56	2568.41	1625884.03	327552.80	39°23'30.330"N	80°49'25.546"W	8562.83	162.546	1.32	-1.24	0.45
14815.00	90.280	158.700	6255.30	8644.37	-8252.57	2600.69	1625916.31	327468.80	39°23'29.505"N	80°49'25.119"W	8652.66	162.508	0.78	0.48	-0.61
14904.00	90.150	158.720	6254.96	8733.35	-8335.50	2633.01	1625948.63	327385.88	39°23'28.690"N	80°49'24.692"W	8741.47	162.470	0.15	-0.15	0.02
14994.00	90.400	160.540	6254.53	8823.34	-8419.86	2664.34	1625979.95	327301.52	39°23'27.861"N	80°49'24.277"W	8831.35	162.441	2.04	0.28	2.02
15084.00	90.000	160.440	6254.02	8913.33	-8504.69	2694.39	1626010.01	327216.69	39°23'27.027"N	80°49'23.878"W	8921.30	162.421	0.20	-0.17	-0.11
15173.00	90.160	162.350	6253.13	9002.30	-8589.03	2722.78	1626038.40	327132.35	39°23'26.197"N	80°49'23.501"W	9010.28	162.411	2.26	0.72	2.15
15263.00	90.160	164.800	6251.81	9092.19	-8674.94	2749.59	1626065.20	327046.45	39°23'25.352"N	80°49'23.143"W	9100.26	162.414	0.72	-0.10	0.71
15339.00	90.160	164.800	6251.01	9168.02	-8747.89	2770.89	1626086.50	326973.51	39°23'24.634"N	80°49'22.858"W	9176.24	162.424	2.00	-0.53	1.93
15364.00	90.160	164.800	6250.84	9192.95	-8771.97	2777.58	1626093.19	326949.42	39°23'24.397"N	80°49'22.769"W	9201.22	162.430	0.00	0.00	0.00

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Actual Wellpath Report

SHR-3H-HS AWP Proj: 15364'

Page 8 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot II
Area	Tyler County, WV	Well	SHR-3H-HS
Field	Tyler	Wellbore	SHR-3H-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-3H-HS BHL Rev-2		6263.00	-8779.17	2755.14	1626070.75	326942.23	39°23'24.323"N	80°49'23.053"W	point
SHR-3H-HS LP Rev-2		6263.00	-660.00	-200.00	1623115.77	335060.96	39°24'44.128"N	80°50'02.223"W	point

WELLPATH COMPOSITION - Ref Wellbore: SHR-3H-HS AWB Ref Wellpath: SHR-3H-HS AWP Proj: 15364'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.50	2129.50	Generic gyro - northseeking (Standard)	01 MS Gyro <12-1/4"> (100'-2111')	SHR-3H-HS AWB
2129.50	2200.00	Generic gyro - northseeking (Standard)	03 Gyrodata SS <8-3/4"> (2200')	SHR-3H-HS AWB
2200.00	5007.00	NaviTrak (MagCorr)	04_BHI MWD <8-3/4"> (2200')(2223'-5007')	SHR-3H-HS AWB
5007.00	15339.00	NaviTrak (AT Curve Short Spaced)	05_BHI AT Curve <8-3/4"> (5007')(5051'-15339')	SHR-3H-HS AWB
15339.00	15364.00	Blind Drilling (std)	Projection to bit	SHR-3H-HS AWB

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Actual Wellpath Report
 SHR-3H-HS AWP Proj: 15364'
 Page 9 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-3H-IIS
Field	Tyler	Wellbore	SHR-3H-IIS AWB
Facility	SHR-3 Pad		

COMMENTS

Wellpath general comments

API: 47-095-02196-0000
 BHI Job #: 7024843
 Rig: Precision 542
 Duration: 2/25/2015-3/4/2015
 MS Gyro <12-1/4"> (100'-2111')
 BHI MWD <8-3/4"> (2200')(2223'-5007')
 BHI AT Curve <8-3/4"> (5007')(5051'-15339')
 Projected MD at TD: 15364'

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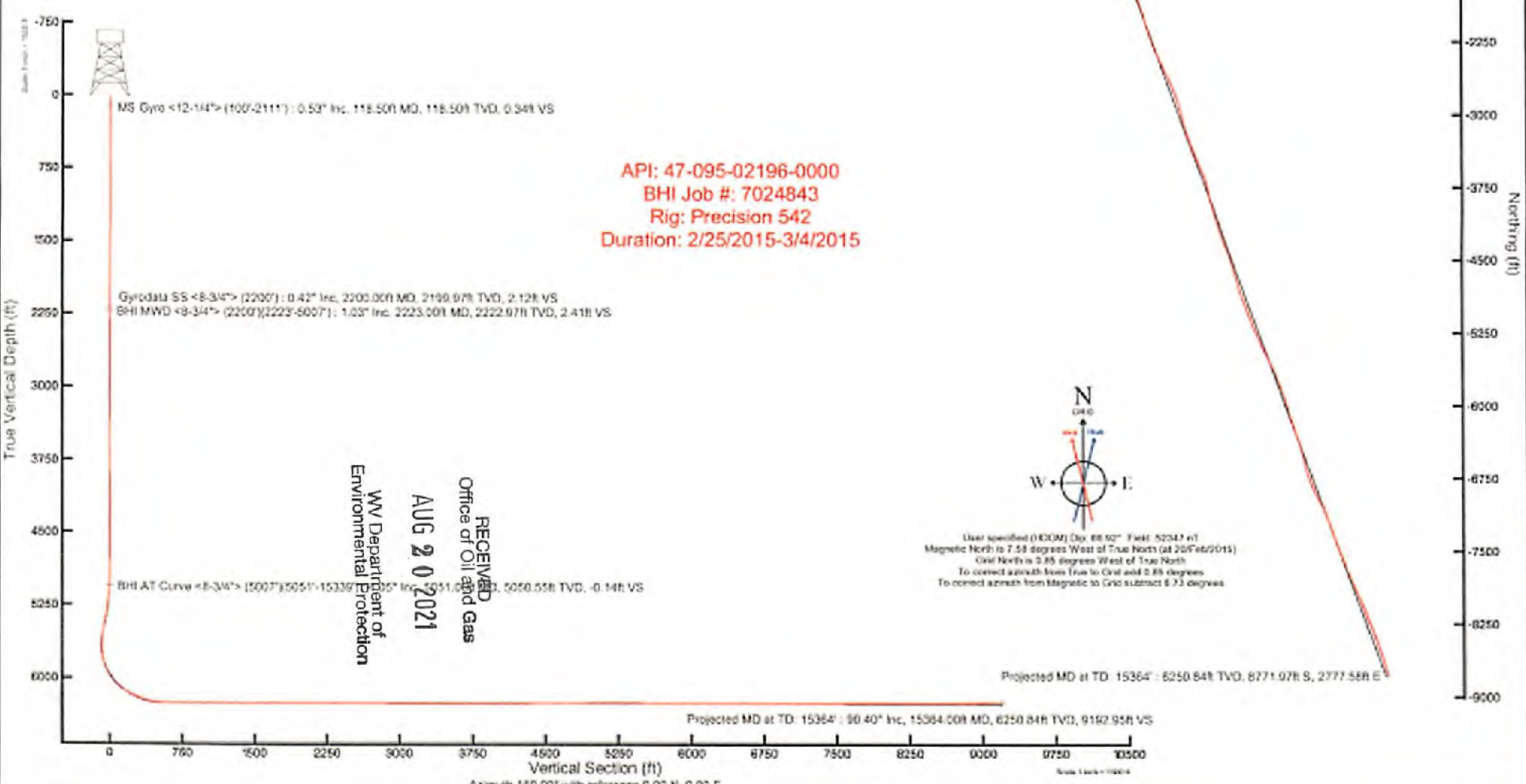
47-095-02196P

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

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

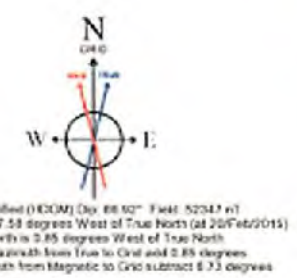
The address applies to SHR-3H PWB Head 1	
Tool joint type as defined in Precision 542 (993)	Oil System MD (11) and Oil System ST, Northern Zone (19), 18 for
Measured depth as defined in Precision 542 (993)	Non-Precision tool joint
Precision 542 (993) to Mean Sea Level (MSL) (ft)	Scale True depth
Mean Sea Level to MWD (ft)	Depth in feet
Coordinate system as defined in SHR	Coordinate system as defined in SHR

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
SHR-3 Pad	153298.030	335743.440	39°24'50.900"N	80°50'50.030"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot H	-22.52	17.73	153315.760	335720.620	39°24'50.880"N
Precision 542 (993) to Mud line (At Slot, Slot H)	18.50				
Mean Sea Level to Mud line (At Slot, Slot H)	-751.920				
Precision 542 (993) to Mean Sea Level	730.400				



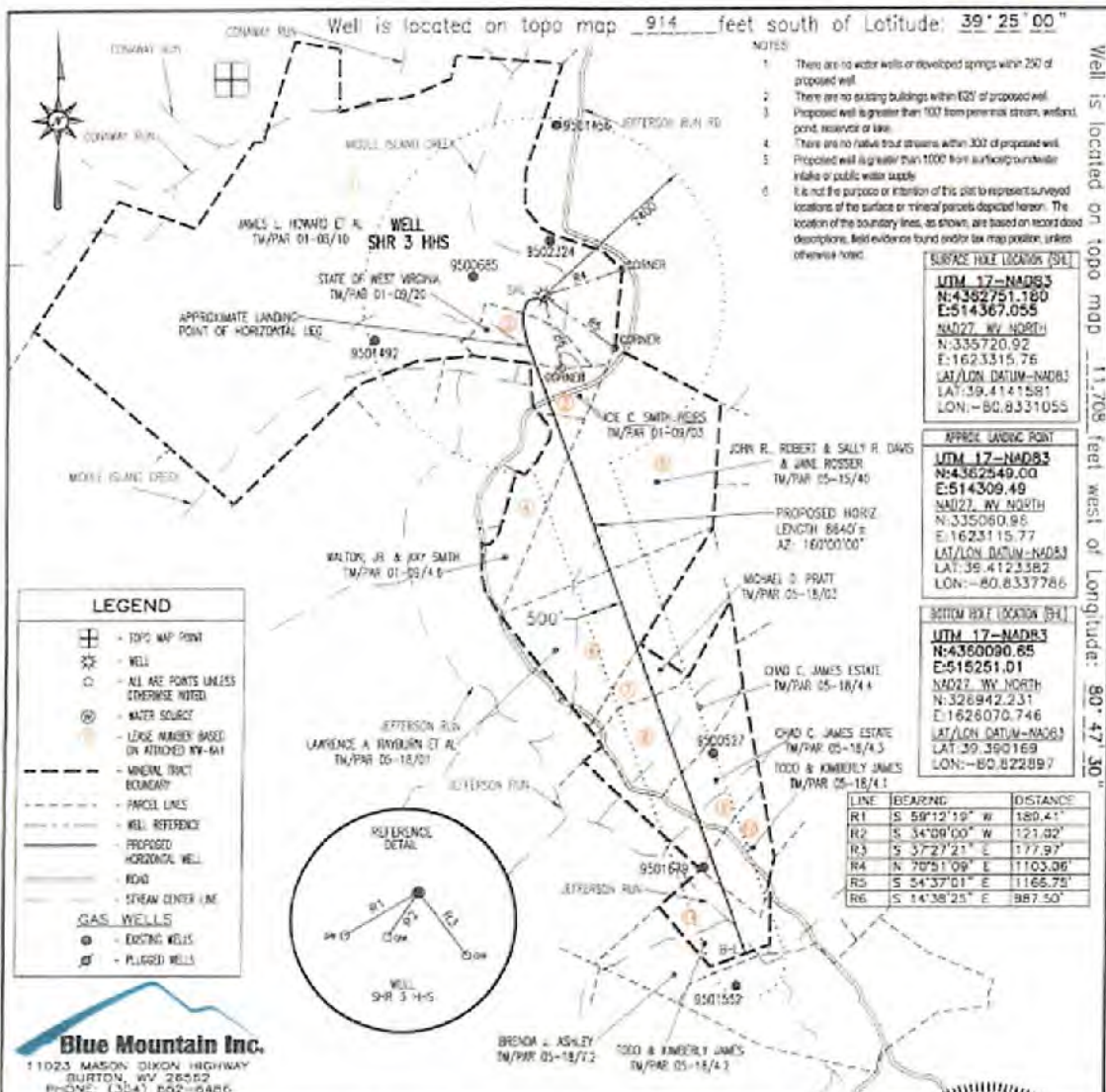
API: 47-095-02196-0000
 BHI Job #: 7024843
 Rig: Precision 542
 Duration: 2/25/2015-3/4/2015

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LEGEND

- TOPG MAP POINT
- WELL
- ALL ARE PORTS UNLESS OTHERWISE NOTED
- WATER SOURCE
- LOGS NUMBER BASED ON ATTACHED WA-6A1
- 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 25502
 PHONE: (304) 652-6466

- NOTES**
- There are no water wells or developed springs with 200' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no faults that stream within 300' of proposed well.
 - Proposed well is greater than 1000' from surface or subsurface intake or public water intake.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, are based on record descriptions, field evidence found (sector tax map position, unless otherwise noted).

SURFACE TRACT LOCATION (2011)
 UTM 17-NAD83
 N:4382751.180
 E:514367.055
 NAD27 WV NORTH
 N:335720.92
 E:1623315.76
 LAT/LON DATUM-NAD83
 LAT:39.4141581
 LON:-80.8331055

APPROX LANDING POINT
 UTM 17-NAD83
 N:4382549.00
 E:514309.49
 NAD27 WV NORTH
 N:335060.98
 E:1623115.77
 LAT/LON DATUM-NAD83
 LAT:39.4123582
 LON:-80.8337786

BOTTOM HOLE LOCATION (2011)
 UTM 17-NAD83
 N:4360090.65
 E:515251.01
 NAD27 WV NORTH
 N:326942.231
 E:1626070.746
 LAT/LON DATUM-NAD83
 LAT:39.390169
 LON:-80.822897

LINE	BEARING	DISTANCE
R1	S 59°12'19" W	180.41'
R2	S 34°09'00" W	121.92'
R3	S 37°27'21" E	177.97'
R4	N 70°51'09" E	1103.06'
R5	S 54°37'01" E	1166.79'
R6	S 14°38'25" E	987.50'



FILE #: SHR 3 HHS
 DRAWING #: SHR 3 HHS
 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: JUNE 10, 2014
 OPERATOR'S WELL #: SHR 3 HHS
 API WELL #: 47 95
 STATE COUNTY PERMIT

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

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 751±
 COUNTY/DISTRICT: TYLER / CENTERMILLE QUADRANGLE: SHIRLEY, WV 7.5'
 SURFACE OWNER: Noble Energy, Inc. ACREAGE: 542.81±
 OIL & GAS ROYALTY OWNER: SEE ATTACHED WA-6A1 ACREAGE: 980.395±

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: BURKETT ESTIMATED DEPTH: TVD: 6,275± TMD: 15,379±
 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: 25309

09/10/2021

11/10/2016

PLUGGING PERMIT CHECKLIST

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

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AUG 20 2021
WV Department of
Environmental Protection



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

Plugging H6A Horizontal Well Work Permit (API: 47-095-02196)

1 message

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

Wed, Sep 8, 2021 at 2:25 PM

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

I have attached a copy of the newly issued well [permit](#) number, “**SHR3HHS**”, API: (**47-095-02196**). 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

2 attachments

 **47-095-02196 - Copy.pdf**
2574K

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

09/10/2021