



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

Thursday, September 9, 2021
WELL WORK PLUGGING PERMIT
Horizontal 6A Plugging

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

Re: Permit approval for SHR40 CHS
47-095-02205-00-00

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.


James A. Martin
Chief

Operator's Well Number: SHR40.CHS
Farm Name: NOBLE ENERGY, INC.
U.S. WELL NUMBER: 47-095-02205-00-00
Horizontal 6A Plugging
Date Issued: 9/9/2021

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-40C-HS
3) API Well No. 47-095 - 02205

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 771 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 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

- MUST RUN CEMENT BONA LOG ON PRODUCTION CASING, TO FIND CEMENT TOP,
- CUT & REMOVE ALL FREE CASING

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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

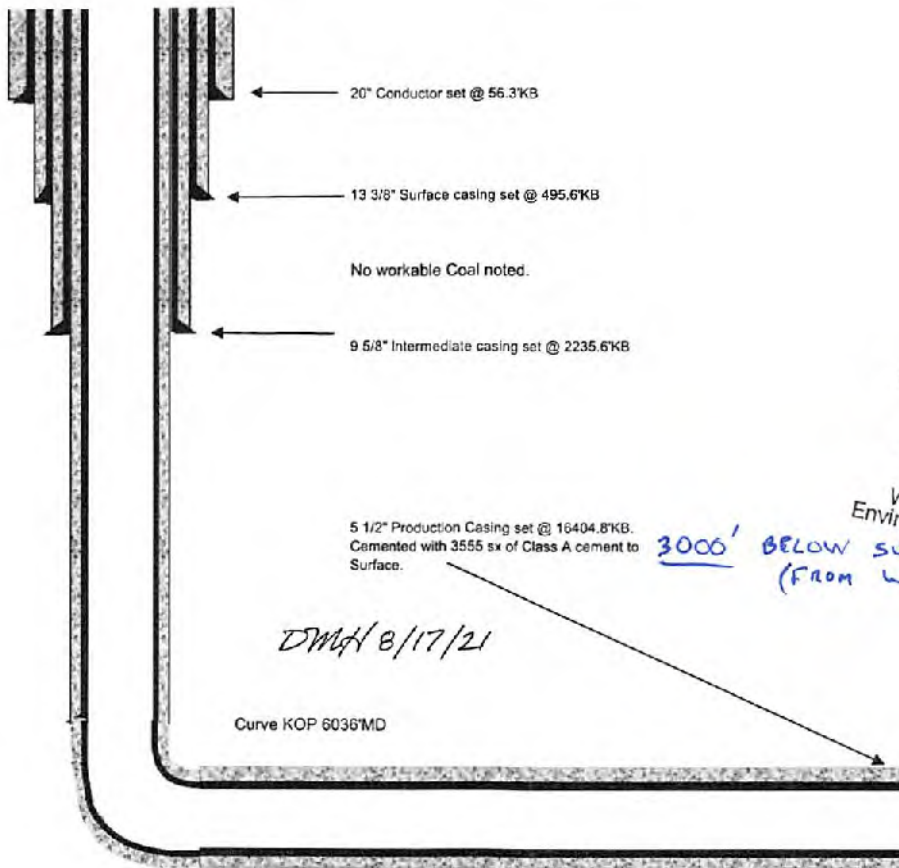
09/10/2021

CNX GAS, LLC	47-095-02205A
Well Bore Diagram	
SHRL-40C-HS	

State: West Virginia County: Tyler Field: Shirley Current Completion: TD MD / TVD: <table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">16414</td> <td style="padding-left: 5px;">Burket</td> <td style="padding-left: 5px;">7492</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">16404.8</td> <td style="padding-left: 5px;">MD</td> <td></td> </tr> </table>	16414	Burket	7492	16404.8	MD		API #: 47-095-02205-00 Lease #: _____ Permit #: _____		
16414	Burket	7492							
16404.8	MD								
Elevations <table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">771</td> <td style="padding-left: 5px;">GL</td> <td style="padding-left: 5px;">19.4</td> <td style="padding-left: 5px;">KB</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">6036</td> <td style="padding-left: 5px;">MD</td> <td style="padding-left: 5px;">5881</td> <td style="padding-left: 5px;">TVD</td> </tr> </table>	771	GL	19.4	KB	6036	MD	5881	TVD	Elev Corr 790.4
771	GL	19.4	KB						
6036	MD	5881	TVD						
KOP: 6036 MD ETOC: Surface	Date Updated 8/9/2021								

Casing

Conductor 20" Depth Set: 56.3 Surface: 13 3/8" Depth Set: 495.6 Intermed: 9 5/8" Depth Set: 2235.6 Production 5 1/2" Depth Set: 16404.8 Tubing: _____ Depth Set: _____	Grade and Weight: J55 54.5# BTC Grade and Weight: HCK55 36# BTC Grade and Weight: P110 20# BTC Grade and Weight: _____	Hole Size: 17.5" Hole Size: 12.25" Hole Size: 8.5"
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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 47-095-02205 County Tyler District Centerville
Quad Shirley Pad Name SHR 40 Field/Pool Name NA
Farm name Noble Energy, Inc. Well Number SHR 40 CHS
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 4362838.86 Easting 514239.48
Landing Point of Curve Northing 4362741.37 Easting 514808.54
Bottom Hole Northing 4360088.19 Easting 515624.68

Elevation (ft) 771 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

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Date permit issued 12/16/2014 Date drilling commenced 03/30/2015 Date drilling ceased 05/31/2015
Date completion activities began NA Date completion activities ceased _____
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

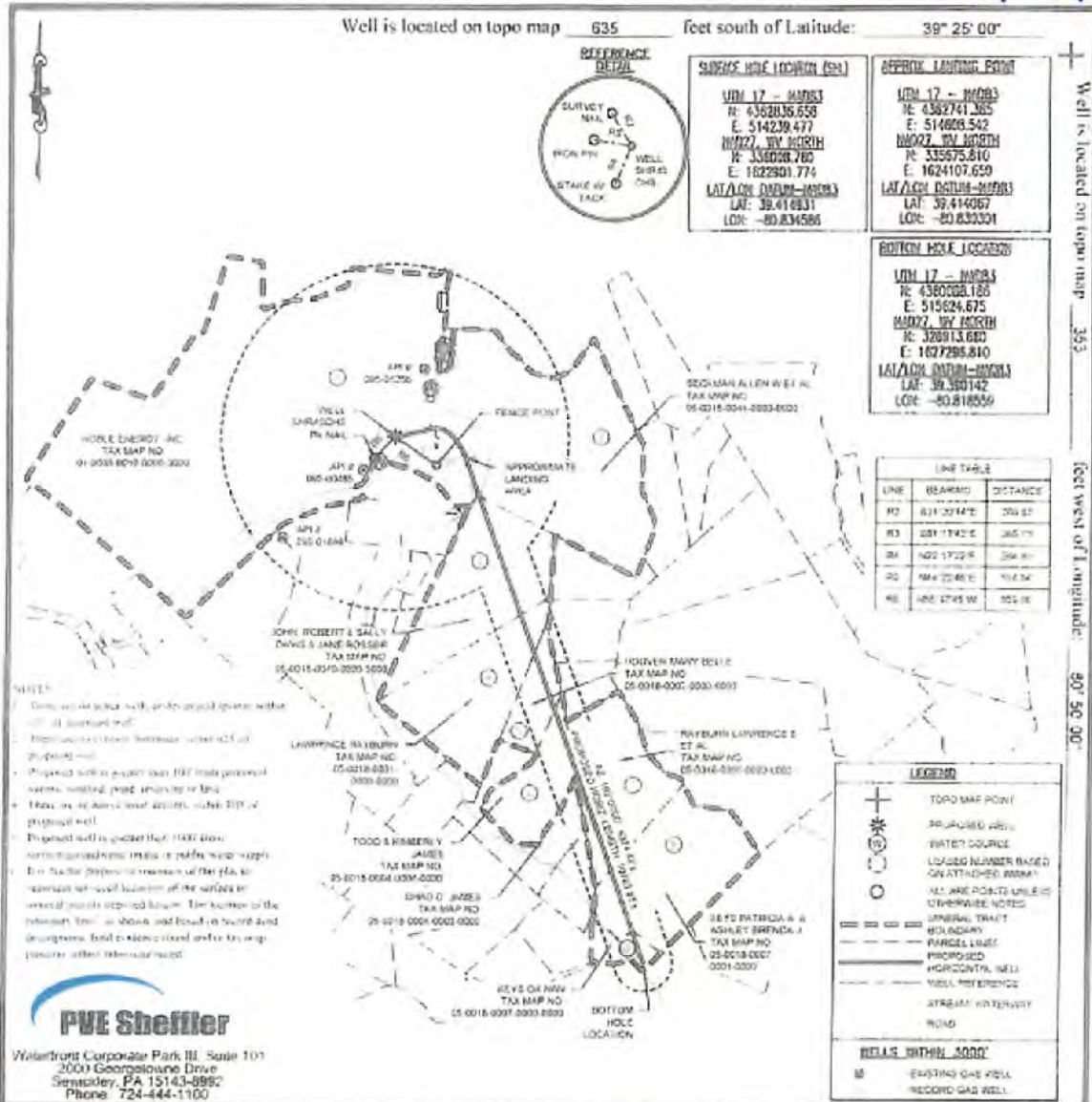
Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 357 Open mine(s) (Y/N) depths none
Salt water depth(s) ft None noted for Offsets Void(s) encountered (Y/N) depths none
Coal depth(s) ft no coal Cavern(s) encountered (Y/N) depths none
Is coal being mined in area (Y/N) N

Reviewed by:
09/10/2021

Well is located on topo map 635 feet south of Latitude: 39° 25' 00"

Well is located on topo map 393 feet west of Longitude: 90° 50' 00"



PVE Sheffler
 Waterfront Corporate Park III, Suite 101
 2000 Georgialoune Drive
 Seneca, PA 15143-8982
 Phone 724-444-1100

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: *Davidson*
 R.P.E.: _____ L.L.S.: P.S. NO. 819

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1 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 3RD STREET CHARLESTON WV 25304

DATE: SEPTEMBER 4, 2016

OPERATOR'S WELL: SHR 40 GHS

API WELL: 47 095

STATE: _____ COUNTY: _____ PERMIT: _____

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

WATER SHIELD: MIDDLE ISLAND CREEK ELEVATION: 773'

COUNTY DISTRICT: CENTERVILLE / TYLER QUADRANGLE: SHIRLEY, W VA

SURFACE OWNER: NOBLE ENERGY INC ACREAGE: 572.64

OTHER PARTY OWNER: DAVID L MAPLE ET AL ACREAGE: 357.43

DRILL: CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT 2 PLUGS OTHER CHANGE (SPECIFY) _____

TARGET FORMATION: BURKETT ESTIMATED DEPTH: TVD 6,295 ± TMD 16,287 ±

WELL OPERATOR: NOBLE ENERGY INC DESIGNATED AGENT: STEVEN W 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

09/10/2021

WR-35
Rev. 8/23/13

API 47-095 - 02205 Farm name Noble Energy, Inc. Well number SHR 40 CHS

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	36	20	40				
Surface	17 1/2	13 3/8	495.6	N	J-55 54.5#		Y
Coal							
Intermediate 1	13 3/8	9 5/8	2235.6	N	HCK-65 36#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4	5 1/2	16,404.8	N	P-110 20#		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	420	15.6	1.18	70.0	0	8
Coal							
Intermediate 1	Class A	840	15.6	1.18	170.0	0	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead 845 Tail 2710	Lead 13.5 Tail 14.5	Lead 1.58 Tail 1.25	Lead 238.0 Tail 352.0	3000.9	8
Tubing							

Drillers TD (ft) 16,414 Loggers TD (ft) 16,360
 Deepest formation penetrated Marcellus Plug back to (ft) Not a Pilot Hole
 Plug back procedure Not a Pilot Hole

Kick off depth (ft) 5,937

Check all wireline logs run caliper density deviated/directional industrial sonic
 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 Conductor - No centralizers used. Fresh Water/Surface-Surface - 5 centralizers used, one every third joint. Intermediate - 20 centralizers - bow spring centralizers on every joint to KOP, on every third joint from KOP to 100' from surface. Production - 320 centralizers - rigid bow spring every third joint from KOP to TOC, rigid bow spring every joint to KOP.

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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WR-35
Rev. 8/23/13

API 47- 095 - 02205 Farm name Noble Energy, Inc. Well number PEN 2 BHS

PRODUCING FORMATION(S)	DEPTHS	
	TVD	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 ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
	SEE ATTACHED FORMATION SHEET				

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 #120 City Canonsburg State PA Zip 15317

Cementing Company Allied Cementing Company, LLC
 Address 100 Hope Street City Clarksburg State WV Zip 26301

Stimulating Company _____
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Regina A Logue Telephone 724-820-3559
 Signature Regina A. Logue Title Regulatory Analyst Date 01/20/2017

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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SHR 40 CHS

Formations	Top	Base
Shale	0	1020
Shale and Sandstone	1020	1743
Big Lime	1743	1871
Big Injun	1871	1978
Price	1978	2129
Weir	2129	2233
Shale	2233	2320
Berea	2320	2328
Shale	2328	2509
Sandstone	2509	2611
Shale	2611	2747
Sandstone	2747	2765
Shale	2765	3239
Warren	3239	3285
Shale and Sandstone	3285	3637
Lower Huron	3637	4395
Sandstone	4395	4433
Shale	4433	4627
Sandstone	4627	4683
Shale	4683	4807
Benson	4807	4851
Shale	4851	5051
Alexander	5051	5109
Shale	5109	6050
Cashaqua	6050	6161
Middlesex	6161	6195
West River	6195	6263
Burkett	6263	6297
Tully	6297	6300
Hamilton	6300	6317
Marcellus	6317	6381
Onondaga	6381	

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WW-4A
Revised 6-07

1) Date: 8-16-2021
2) Operator's Well Number
SHRL-400-HS
3) API Well No.: 47 - 095 - 02205

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

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>CNX Gas Company</u> Address <u>1000 Consol Energy Drive</u> <u>Canonsburg PA 15317</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Derek Haught</u> Address <u>PO box 85</u> <u>Smithville WV 26178</u> Telephone <u>304-206-7613</u></p>	<p>5) (a) Coal Operator</p> <p>Name <u>N/A</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>N/A</u> Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u> Address _____</p>
--	--

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 Form WW-6. 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 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
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 1st
Commission number 1156
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.

09/10/2021

47-095-02205 P

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													
OFFICIAL USE													
Certified Mail Fee	\$3.60												
Postage	\$1.20												
Total F	\$4.80												
<table border="1"> <tr> <td colspan="2">Extra Services & Fees (check box, add fee as appropriate)</td> </tr> <tr> <td><input type="checkbox"/> Return Receipt (hardcopy)</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Return Receipt (electronic)</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Required</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td>\$0.00</td> </tr> </table>		Extra Services & Fees (check box, add fee as appropriate)		<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
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<table border="1"> <tr> <td>Sent To</td> <td>CNX Gas Company LLC</td> </tr> <tr> <td>Street</td> <td>1000 Consol Energy Dr.</td> </tr> <tr> <td>City, S</td> <td>Canonsburg, PA 15317</td> </tr> </table>		Sent To	CNX Gas Company LLC	Street	1000 Consol Energy Dr.	City, S	Canonsburg, PA 15317						
Sent To	CNX Gas Company LLC												
Street	1000 Consol Energy Dr.												
City, S	Canonsburg, PA 15317												



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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 494456046

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)

DMA 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

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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

Subscribed and sworn before me this 15th day of August 2021

Vicki L. Smith

My commission expires 6/19/22

20
Commonwealth of Pennsylvania - Not:
Vicki L. Smith, Notary Public
Notary Public Indiana County
My commission expires June 19, 2
Commission number 1155812
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

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 4709502205 WELL NO.: SHRL-40C-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: 4362836.658

UTM GPS EASTING: 514239.477 GPS ELEVATION: 771

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- 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] _____ Project Manager _____ 8-18-21 _____
Signature Title Date

09/10/2021

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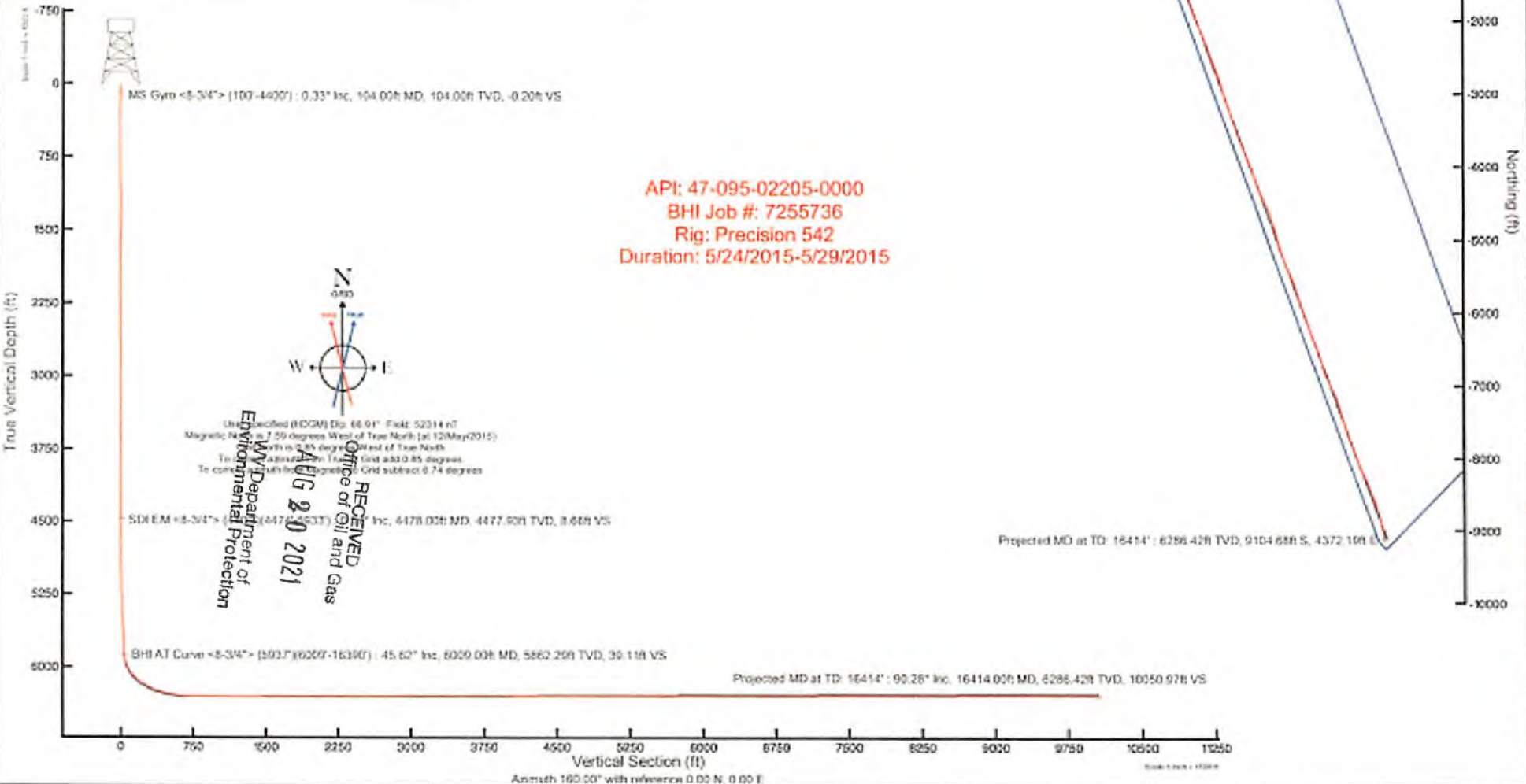
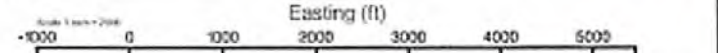
Location: Tyler County, WV
 Field: Tyler
 Facility: SHR-40 Pad

Slot: Slot C
 Well: SHR-40C-HS
 Wellbore: SHR-40C-HS PWB

This information applies to SHR-40C-HS PWB Slot C	
True vertical depths are referenced to Precision 542 (992)	Grid System: NAD83 / Lambert Conformal Conic Spher. Northern Zone (1983), US Feet
Measured depths are referenced to Precision 542 (992)	North Reference: Grid North
Precision 542 (992) to Mean Sea Level: 788.86 feet	Scale: True Distance
Mean Sea Level to Mud line (M Slot Slot C): -788.86 feet	Depth is in feet
Coordinates are in feet referenced to 2011	Created by: whaynes on 03/26/2015

Location Information						
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude		
SHR-40 Pad	1822002.580	338037.456	39°24'53.800"N	80°52'04.870"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude
Slot C	-33.67	-20.84	1822001.910	338036.797	39°24'53.444"N	80°52'05.129"W
Comment	Repaired well - @ 1111 ft					
Precision 542 (992) to Mud line (M Slot Slot C)	73.43					
Mean Sea Level to Mud line (M Slot Slot C)	-788.86 ft					
Precision 542 (992) to Mean Sea Level	788.86 ft					

BHI AT Curve <S-3/4"> (5937)6269-16360 : 5862.29ft TVD, 144.96ft N, 512.60ft E
 SDI EM <S-3/4"> (4400)4474-56337 : 4477.93ft TVD, 8.83ft S, 1.07ft E
 MS Gyro <S-3/4"> (1007-4400) : 104.00ft TVD, 0.24ft N, 0.06ft E Slot C



47-095-02205-P

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWB
Facility	SHR-40 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	0.999947	Report Generated	03/Jun/2015 at 12:09
Convergence at slot	0.85° West	Database/Source file	WellArchitectEasternDB/SHR-40C-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	-33.67	-20.84	1622901.75	336008.79	39°24'53.464"N	80°50'05.129"W
Facility Reference Pt			1622922.59	336042.46	39°24'53.800"N	80°50'04.870"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	788.86ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	788.86ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot C)	19.40ft
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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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWB
Facility	SHR-40 Pad		

WELLPATH DATA (198 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	13.370	0.00	0.00	0.00	0.00	1622901.75	336008.79	39°24'53.464"N	80°50'05.129"W	0.00	0.000	0.00	0.00	0.00
19.40	0.000	13.370	19.40	0.00	0.00	0.00	1622901.75	336008.79	39°24'53.464"N	80°50'05.129"W	0.00	0.000	0.00	0.00	0.00
104.00	0.330	13.370	104.00	-0.20	0.24	0.06	1622901.81	336009.03	39°24'53.467"N	80°50'05.128"W	0.24	13.370	0.39	0.39	0.00
204.00	0.320	351.060	204.00	-0.72	0.79	0.08	1622901.83	336009.58	39°24'53.472"N	80°50'05.128"W	0.80	5.727	0.13	-0.01	-22.31
304.00	0.180	51.210	304.00	-1.04	1.17	0.16	1622901.91	336009.96	39°24'53.476"N	80°50'05.127"W	1.18	7.736	0.28	-0.14	60.15
404.00	0.190	44.520	404.00	-1.16	1.38	0.40	1622902.15	336010.17	39°24'53.478"N	80°50'05.124"W	1.44	16.016	0.02	0.01	-6.69
504.00	0.150	27.270	504.00	-1.32	1.62	0.57	1622902.32	336010.41	39°24'53.480"N	80°50'05.122"W	1.72	19.511	0.06	-0.04	-17.25
604.00	0.240	49.520	604.00	-1.49	1.87	0.79	1622902.54	336010.66	39°24'53.483"N	80°50'05.119"W	2.03	22.965	0.12	0.09	22.25
704.00	0.140	42.290	704.00	-1.62	2.10	1.03	1622902.78	336010.89	39°24'53.485"N	80°50'05.116"W	2.34	26.252	0.10	-0.10	-7.23
804.00	0.050	99.660	803.99	-1.65	2.18	1.16	1622902.91	336010.97	39°24'53.486"N	80°50'05.115"W	2.47	28.005	0.12	-0.09	57.37
904.00	0.440	113.120	903.99	-1.37	2.02	1.56	1622903.31	336010.81	39°24'53.484"N	80°50'05.110"W	2.55	37.572	0.39	0.39	13.46
1004.00	0.540	107.030	1003.99	-0.82	1.73	2.36	1622904.11	336010.52	39°24'53.482"N	80°50'05.099"W	2.93	53.696	0.11	0.10	-6.09
1104.00	0.570	87.280	1103.99	-0.39	1.62	3.31	1622905.06	336010.41	39°24'53.481"N	80°50'05.087"W	3.68	63.914	0.19	0.03	-19.75
1204.00	0.320	99.540	1203.98	-0.10	1.60	4.08	1622905.83	336010.39	39°24'53.481"N	80°50'05.077"W	4.38	68.628	0.27	-0.25	12.26
1304.00	0.200	88.040	1303.98	0.09	1.56	4.53	1622906.28	336010.35	39°24'53.480"N	80°50'05.072"W	4.79	71.039	0.13	-0.12	-11.50
1404.00	0.230	87.780	1403.98	0.20	1.57	4.90	1622906.65	336010.36	39°24'53.480"N	80°50'05.067"W	5.15	72.250	0.03	0.03	-0.26
1504.00	0.200	94.030	1503.98	0.33	1.57	5.28	1622907.03	336010.36	39°24'53.480"N	80°50'05.062"W	5.51	73.483	0.04	-0.03	6.25
1604.00	0.280	90.380	1603.98	0.49	1.55	5.70	1622907.45	336010.34	39°24'53.480"N	80°50'05.057"W	5.90	74.767	0.08	0.08	-3.65
1704.00	0.320	92.200	1703.98	0.68	1.54	6.22	1622907.97	336010.33	39°24'53.480"N	80°50'05.050"W	6.41	76.103	0.04	0.04	1.82
1804.00	0.280	91.670	1803.98	0.88	1.52	6.74	1622908.49	336010.31	39°24'53.480"N	80°50'05.044"W	6.91	77.289	0.04	-0.04	-0.53
1904.00	0.270	107.240	1903.98	1.11	1.44	7.21	1622908.96	336010.23	39°24'53.480"N	80°50'05.038"W	7.36	78.678	0.08	-0.01	15.57
2004.00	0.220	109.790	2003.97	1.38	1.31	7.62	1622909.37	336010.10	39°24'53.478"N	80°50'05.032"W	7.73	80.248	0.05	-0.05	2.55
2104.00	0.210	150.640	2103.97	1.68	1.08	7.89	1622909.64	336009.87	39°24'53.476"N	80°50'05.029"W	7.96	82.172	0.15	-0.01	40.85
2204.00	0.240	154.400	2203.97	1.97	0.74	8.07	1622909.82	336009.53	39°24'53.473"N	80°50'05.026"W	8.10	84.788	0.03	0.03	3.76
2304.00	0.390	192.700	2303.97	2.06	0.22	8.09	1622909.83	336009.01	39°24'53.468"N	80°50'05.026"W	8.09	88.476	0.25	0.15	38.30
2404.00	0.490	199.060	2403.97	1.88	-0.52	7.87	1622909.62	336008.27	39°24'53.460"N	80°50'05.029"W	7.89	93.787	0.11	0.10	6.36
2504.00	0.450	199.480	2503.97	1.52	-1.30	7.60	1622909.35	336007.49	39°24'53.453"N	80°50'05.032"W	7.71	99.673	0.04	-0.04	0.42
2604.00	0.430	195.130	2603.96	1.43	-2.03	7.37	1622909.12	336006.76	39°24'53.445"N	80°50'05.035"W	7.64	105.382	0.04	-0.02	-4.35
2704.00	0.250	192.810	2703.96	0.92	-2.60	7.22	1622908.97	336006.19	39°24'53.440"N	80°50'05.037"W	7.68	109.812	0.18	-0.18	-2.32
2804.00	0.170	220.820	2803.96	5.17	-2.93	7.08	1622908.83	336005.86	39°24'53.436"N	80°50'05.038"W	7.66	112.468	0.13	-0.08	28.01

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Actual Wellpath Report

SHR-40C-HS AWP Proj: 16414'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWB
Facility	SHR-40 Pad		

WELLPATH DATA (198 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]
2904.00	0.250	249.300	2903.96	5.25	-3.12	6.78	1622908.53	336005.67	39°24'53.434"N	80°50'05.042"W	7.46	114.696	0.13	0.08	28.48
3004.00	0.380	230.470	3003.96	5.36	-3.41	6.32	1622908.07	336005.38	39°24'53.431"N	80°50'05.048"W	7.18	118.322	0.16	0.13	-18.83
3104.00	0.340	191.240	3103.96	5.73	-3.91	6.00	1622907.75	336004.88	39°24'53.426"N	80°50'05.052"W	7.16	123.052	0.24	-0.04	-39.23
3204.00	0.160	190.850	3203.95	6.10	-4.34	5.92	1622907.67	336004.45	39°24'53.422"N	80°50'05.053"W	7.34	126.214	0.18	-0.18	-0.39
3304.00	0.190	248.630	3303.95	6.22	-4.53	5.74	1622907.49	336004.26	39°24'53.420"N	80°50'05.055"W	7.31	128.299	0.17	0.03	57.78
3404.00	0.310	234.340	3403.95	6.30	-4.75	5.37	1622907.12	336004.04	39°24'53.418"N	80°50'05.060"W	7.17	131.523	0.13	0.12	-14.29
3504.00	0.270	197.010	3503.95	6.56	-5.13	5.08	1622906.83	336003.66	39°24'53.414"N	80°50'05.063"W	7.22	135.320	0.19	-0.04	-37.33
3604.00	0.180	210.560	3603.95	6.85	-5.49	4.93	1622906.68	336003.30	39°24'53.411"N	80°50'05.065"W	7.38	138.111	0.10	-0.09	13.55
3704.00	0.140	248.960	3703.95	6.95	-5.67	4.73	1622906.48	336003.12	39°24'53.409"N	80°50'05.068"W	7.39	140.157	0.11	-0.04	38.40
3804.00	0.340	233.190	3803.95	7.04	-5.90	4.38	1622906.13	336002.89	39°24'53.407"N	80°50'05.072"W	7.35	143.372	0.21	0.20	-15.77
3904.00	0.390	215.510	3903.95	7.32	-6.35	3.95	1622905.70	336002.44	39°24'53.402"N	80°50'05.078"W	7.48	148.133	0.12	0.05	-17.68
4004.00	0.430	217.200	4003.95	7.71	-6.93	3.52	1622905.27	336001.86	39°24'53.396"N	80°50'05.083"W	7.77	153.039	0.04	0.04	1.69
4104.00	0.310	208.830	4103.94	8.10	-7.46	3.17	1622904.92	336001.33	39°24'53.391"N	80°50'05.087"W	8.11	157.011	0.13	-0.12	-8.37
4204.00	0.260	238.960	4203.94	8.32	-7.82	2.84	1622904.59	336000.97	39°24'53.387"N	80°50'05.091"W	8.32	160.025	0.16	-0.05	30.13
4304.00	0.360	237.020	4303.94	8.43	-8.10	2.38	1622904.13	336000.69	39°24'53.384"N	80°50'05.097"W	8.45	163.614	0.10	0.10	-1.94
4404.00	0.550	248.410	4403.94	8.51	-8.45	1.67	1622903.42	336000.34	39°24'53.381"N	80°50'05.106"W	8.62	168.802	0.21	0.19	11.39
4478.00	0.570	228.060	4477.93	8.66	-8.83	1.07	1622902.82	335999.96	39°24'53.377"N	80°50'05.114"W	8.89	173.095	0.27	0.03	-27.50
4523.00	0.290	217.380	4522.93	8.81	-9.07	0.83	1622902.58	335999.72	39°24'53.375"N	80°50'05.117"W	9.11	174.748	0.64	-0.62	-23.73
4567.00	1.040	51.100	4566.93	8.74	-8.91	1.08	1622902.83	335999.88	39°24'53.376"N	80°50'05.114"W	8.97	173.107	3.01	1.70	-377.91
4655.00	3.840	69.160	4654.84	8.44	-7.36	4.45	1622906.20	336001.43	39°24'53.392"N	80°50'05.071"W	8.60	148.813	3.26	3.18	20.52
4699.00	4.900	63.580	4698.71	8.20	-6.00	7.51	1622909.26	336002.79	39°24'53.406"N	80°50'05.032"W	9.61	128.593	2.59	2.41	-12.68
4743.00	5.590	62.990	4742.53	8.00	-4.19	11.11	1622912.85	336004.60	39°24'53.424"N	80°50'04.987"W	11.87	110.656	1.57	1.57	-1.34
4787.00	6.480	66.600	4786.29	7.80	-2.23	15.29	1622917.04	336006.56	39°24'53.444"N	80°50'04.934"W	15.45	98.286	2.20	2.02	8.20
4831.00	7.550	70.340	4830.96	7.60	-0.27	20.29	1622922.04	336008.52	39°24'53.465"N	80°50'04.871"W	20.30	90.758	2.64	2.43	8.50
4875.00	8.530	71.590	4874.52	7.40	-1.73	26.11	1622927.86	336010.52	39°24'53.485"N	80°50'04.797"W	26.17	86.200	2.26	2.23	2.84
4919.00	9.860	70.900	4918.96	7.20	4.00	32.77	1622934.52	336012.79	39°24'53.509"N	80°50'04.712"W	33.01	83.044	3.03	3.02	-1.57
4963.00	10.540	75.250	4962.26	7.00	6.26	40.22	1622941.97	336015.05	39°24'53.532"N	80°50'04.618"W	40.70	81.160	2.33	1.55	9.89
5007.00	11.510	74.890	5006.45	6.80	8.42	48.35	1622950.10	336017.21	39°24'53.555"N	80°50'04.515"W	49.08	80.116	2.21	2.20	-0.82
5052.00	12.790	74.570	5051.44	6.60	10.92	57.49	1622959.23	336019.71	39°24'53.581"N	80°50'04.399"W	58.51	79.244	2.85	2.84	-0.71
5096.00	14.250	74.490	5090.22	6.40	13.66	67.40	1622969.15	336022.45	39°24'53.609"N	80°50'04.273"W	68.77	78.540	3.32	3.32	-0.18

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Actual Wellpath Report

SHR-40C-HS AWP Proj: 16414'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWB
Facility	SHR-40 Pad		

WELLPATH DATA (198 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]	
5140.00	16.030	75.210	5132.69	11.19	16.66	78.49	1622980.24	336025.45	39°24'53.640"N	80°50'04.132"W	80.24	78.015	4.07	4.05	1.64	
5184.00	17.820	75.800	5174.78	12.42	19.87	90.89	1622992.64	336028.65	39°24'53.674"N	80°50'03.975"W	93.04	77.671	4.09	4.07	1.34	
5228.00	19.480	73.900	5216.47	13.60	23.55	104.47	1623006.22	336032.34	39°24'53.712"N	80°50'03.803"W	107.09	77.296	4.02	3.77	-4.32	
5273.00	21.070	73.470	5258.68	14.60	27.93	119.44	1623021.18	336036.72	39°24'53.758"N	80°50'03.613"W	122.66	76.836	3.55	3.53	-0.96	
5317.00	22.740	72.730	5299.50	15.48	32.71	135.14	1623036.88	336041.50	39°24'53.807"N	80°50'03.414"W	139.04	76.394	3.85	3.80	-1.68	
5361.00	24.550	72.440	5339.81	16.28	37.99	151.98	1623053.72	336046.78	39°24'53.862"N	80°50'03.200"W	156.65	75.964	4.12	4.11	-0.66	
5405.00	26.100	71.880	5379.58	16.98	43.76	169.89	1623071.63	336052.55	39°24'53.922"N	80°50'02.973"W	175.44	75.556	3.56	3.52	-1.27	
5449.00	27.490	73.740	5418.85	17.96	49.62	188.84	1623090.58	336058.40	39°24'53.982"N	80°50'02.733"W	195.25	75.279	3.69	3.16	4.23	
5493.00	28.430	75.210	5457.72	19.58	55.13	208.72	1623110.46	336063.92	39°24'54.040"N	80°50'02.481"W	215.88	75.203	2.65	2.14	3.34	
5537.00	30.250	76.040	5496.07	21.70	60.48	229.60	1623131.34	336069.27	39°24'54.096"N	80°50'02.215"W	237.43	75.243	4.24	4.14	1.89	
5582.00	31.780	76.850	5534.64	24.30	65.91	252.14	1623153.88	336074.70	39°24'54.153"N	80°50'01.929"W	260.61	75.350	3.52	3.40	1.80	
5626.00	33.690	76.230	5571.65	27.01	71.45	275.28	1623177.01	336080.24	39°24'54.211"N	80°50'01.636"W	284.40	75.449	4.41	4.34	-1.41	
5670.00	35.950	76.370	5607.77	29.77	77.40	299.69	1623201.42	336086.19	39°24'54.273"N	80°50'01.326"W	309.52	75.518	5.14	5.14	0.32	
5714.00	38.100	75.190	5642.90	32.43	83.92	325.37	1623227.10	336092.70	39°24'54.341"N	80°50'01.000"W	336.01	75.538	5.15	4.89	-2.68	
5758.00	40.300	72.500	5676.99	34.28	91.67	352.07	1623253.80	336100.45	39°24'54.422"N	80°50'00.661"W	363.80	75.406	6.32	5.00	-6.11	
5802.00	40.810	72.690	5710.42	35.57	100.22	379.36	1623281.09	336109.01	39°24'54.510"N	80°50'00.315"W	392.38	75.201	1.19	1.16	0.43	
5846.00	41.160	71.290	5743.64	36.57	109.15	406.81	1623308.53	336117.93	39°24'54.603"N	80°49'59.967"W	421.19	74.981	2.23	0.80	-3.18	
5891.00	42.000	71.680	5777.30	37.35	118.63	435.13	1623336.85	336127.41	39°24'54.700"N	80°49'59.608"W	451.01	74.750	1.95	1.87	0.87	
5937.00	43.630	70.330	5811.00	39	128.81	464.68	1623366.41	336137.59	39°24'54.805"N	80°49'59.234"W	482.20	74.507	4.07	3.54	-2.93	
6009.00	45.620	72.390	5842.22	39	144.96	512.60	1623414.33	336153.74	39°24'54.972"N	80°49'58.626"W	532.71	74.210	3.42	2.76	2.86	
6036.00	45.910	72.260	5871.12	39	150.83	531.04	1623432.76	336159.61	39°24'55.033"N	80°49'58.392"W	552.04	74.144	1.13	1.07	-0.48	
6125.00	49.220	84.220	5911.29	39	163.99	595.15	1623496.86	336172.77	39°24'55.172"N	80°49'57.578"W	617.33	74.594	10.58	3.72	13.44	
6215.00	51.920	92.480	5951.50	39	165.89	664.52	1623566.24	336174.67	39°24'55.201"N	80°49'56.695"W	684.92	75.983	7.69	3.00	9.18	
6304.00	54.530	99.660	6001.82	39	102.95	735.32	1623637.03	336167.07	39°24'55.136"N	80°49'55.791"W	752.16	77.852	7.09	2.93	8.07	
6394.00	57.990	110.170	6051.90	39	145.60	807.43	1623709.13	336147.72	39°24'54.956"N	80°49'54.869"W	819.29	80.236	10.44	3.84	11.68	
6483.00	60.870	121.020	6107.26	39	200.29	876.33	1623778.03	336114.60	39°24'54.638"N	80°49'53.985"W	882.69	83.115	10.98	3.24	12.19	
6573.00	62.890	128.450	6169.72	39	265.06	941.46	1623843.16	336069.38	39°24'54.201"N	80°49'53.147"W	943.41	86.317	7.62	2.24	8.26	
6663.00	69.110	134.050	6226.34	39	337.11	6.37	1003.15	1623904.84	336015.16	39°24'53.674"N	80°49'52.350"W	1003.17	89.636	8.95	6.91	6.22
6753.00	76.400	136.620	6253.00	39	415.18	-54.74	1063.50	1623965.19	335954.05	39°24'53.079"N	80°49'51.570"W	1064.90	92.947	8.55	8.10	2.86
6843.00	77.870	142.170	6273.06	39	497.28	-121.34	1120.57	1624022.26	335887.46	39°24'52.429"N	80°49'50.830"W	1127.12	96.180	6.23	1.63	6.17

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWP
Facility	SHR-40 Pad		

WELLPATH DATA (198 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]
6932.00	82.030	149.930	6288.61	582.25	-193.98	1169.43	1624071.11	335814.82	39°24'51.719"N	80°49'50.194"W	1185.40	99.418	9.77	4.67	8.72
7022.00	88.150	158.700	6296.32	671.35	-274.68	1208.20	1624109.89	335734.12	39°24'50.927"N	80°49'49.685"W	1239.04	102.808	11.85	6.80	9.74
7111.00	89.420	161.450	6298.21	760.32	-358.33	1238.52	1624140.21	335650.48	39°24'50.105"N	80°49'49.283"W	1289.32	106.136	3.40	1.43	3.09
7201.00	89.510	163.560	6299.05	850.22	-444.15	1265.58	1624167.26	335564.66	39°24'49.260"N	80°49'48.922"W	1341.25	109.339	2.35	0.10	2.34
7290.00	89.380	161.210	6299.91	939.13	-528.97	1292.51	1624194.19	335479.85	39°24'48.426"N	80°49'48.563"W	1396.56	112.257	2.64	-0.15	-2.64
7380.00	89.690	162.230	6300.64	1029.09	-614.43	1320.74	1624222.41	335394.40	39°24'47.586"N	80°49'48.187"W	1456.66	114.949	1.18	0.34	1.13
7470.00	89.690	163.580	6301.13	1118.97	-700.45	1347.19	1624248.87	335308.38	39°24'46.740"N	80°49'47.834"W	1518.40	117.471	1.50	0.00	1.50
7559.00	89.630	162.650	6301.66	1207.84	-785.61	1373.04	1624274.72	335223.23	39°24'45.902"N	80°49'47.489"W	1581.90	119.777	1.05	-0.07	-1.04
7649.00	90.120	162.500	6301.86	1297.75	-871.48	1399.99	1624301.66	335137.36	39°24'45.057"N	80°49'47.129"W	1649.07	121.902	0.57	0.54	-0.17
7738.00	89.940	164.640	6301.81	1386.57	-956.84	1425.16	1624326.84	335052.00	39°24'44.217"N	80°49'46.792"W	1716.57	123.877	2.41	-0.20	2.40
7828.00	90.090	161.420	6301.79	1476.43	-1042.91	1451.43	1624353.10	334965.94	39°24'43.370"N	80°49'46.442"W	1787.26	125.699	3.58	0.17	-3.58
7917.00	89.940	160.160	6301.76	1565.42	-1126.95	1480.71	1624382.38	334881.90	39°24'42.544"N	80°49'46.053"W	1860.78	127.274	1.43	-0.17	-1.42
8007.00	90.060	156.290	6301.76	1655.36	-1210.51	1514.09	1624415.76	334798.34	39°24'41.723"N	80°49'45.612"W	1938.51	128.642	4.30	0.13	-4.30
8097.00	90.090	155.840	6301.64	1745.15	-1292.77	1550.60	1624452.27	334716.09	39°24'40.916"N	80°49'45.131"W	2018.82	129.819	0.50	0.03	-0.50
8186.00	89.970	161.100	6301.60	1834.08	-1375.53	1583.25	1624484.92	334633.33	39°24'40.103"N	80°49'44.699"W	2097.33	130.984	5.91	-0.13	5.91
8276.00	90.180	160.710	6301.48	1924.07	-1460.58	1612.70	1624514.36	334548.29	39°24'39.266"N	80°49'44.308"W	2175.80	132.166	0.49	0.23	-0.43
8366.00	90.000	161.990	6301.34	2014.05	-1545.85	1641.48	1624543.14	334463.02	39°24'38.428"N	80°49'43.926"W	2254.80	133.282	1.44	-0.20	1.42
8455.00	89.940	161.910	6301.39	2102.99	-1630.47	1669.05	1624570.71	334378.41	39°24'37.596"N	80°49'43.558"W	2333.28	134.330	0.11	-0.07	-0.09
8545.00	89.970	160.550	6301.46	2192.97	-1715.68	1698.01	1624599.67	334293.20	39°24'36.758"N	80°49'43.173"W	2413.88	135.297	1.51	0.03	-1.51
8634.00	90.090	159.180	6301.41	2281.97	-1799.24	1728.65	1624630.30	334209.64	39°24'35.937"N	80°49'42.767"W	2495.10	136.146	1.55	0.13	-1.54
8724.00	90.030	160.010	6301.31	2371.97	-1883.60	1760.03	1624661.68	334125.30	39°24'35.108"N	80°49'42.352"W	2577.91	136.942	0.92	-0.07	0.92
8813.00	90.000	157.910	6301.29	2461.95	-1966.66	1791.98	1624693.63	334042.24	39°24'34.291"N	80°49'41.929"W	2660.62	137.661	2.36	-0.03	-2.36
8903.00	90.060	157.520	6301.24	2551.87	-2049.55	1826.11	1624727.76	333958.97	39°24'33.473"N	80°49'41.479"W	2745.34	138.305	0.44	0.07	-0.43
8992.00	90.150	156.860	6301.08	2641.77	-2132.44	1860.61	1624762.26	333876.93	39°24'32.668"N	80°49'41.024"W	2829.70	138.888	0.75	0.10	-0.74
9082.00	90.060	157.830	6300.92	2731.67	-2215.33	1895.28	1624796.92	333793.88	39°24'31.852"N	80°49'40.566"W	2915.20	139.448	1.08	-0.10	1.08
9171.00	89.910	157.480	6300.94	2821.59	-2298.22	1929.11	1624830.76	333711.57	39°24'31.043"N	80°49'40.120"W	2999.88	139.979	0.43	-0.17	-0.39
9261.00	89.970	158.320	6301.03	2911.53	-2381.11	1962.97	1624864.61	333628.19	39°24'30.224"N	80°49'39.673"W	3085.63	140.494	0.94	0.07	0.93
9350.00	89.880	160.160	6301.15	3001.47	-2464.00	1994.52	1624896.16	333544.97	39°24'29.406"N	80°49'39.255"W	3170.04	141.011	2.07	-0.10	2.07
9440.00	90.000	159.360	6301.24	3091.41	-2546.89	2025.65	1624927.29	333460.54	39°24'28.577"N	80°49'38.843"W	3255.39	141.520	0.90	0.13	-0.89
9529.00	90.060	159.600	6301.20	3176.52	-2631.74	2056.85	1624958.49	333377.19	39°24'27.757"N	80°49'38.430"W	3340.17	141.990	0.28	0.07	0.27

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Actual Wellpath Report

SHR-40C-HS AWP Proj: 16414'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWB
Facility	SHR-40 Pad		

WELLPATH DATA (198 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]
9619.00	90.000	159.940	6301.15	3266.51	-2716.19	2087.97	1624989.61	333292.75	39°24'26.927"N	80°49'38.017"W	3425.98	142.450	0.38	-0.07	0.38
9708.00	90.150	160.360	6301.03	3355.51	-2799.90	2118.19	1625019.83	333209.04	39°24'26.104"N	80°49'37.617"W	3510.87	142.892	0.50	0.17	0.47
9797.00	90.250	164.960	6300.72	3444.39	-2884.84	2144.71	1625046.34	333124.11	39°24'25.269"N	80°49'37.263"W	3594.73	143.371	5.17	0.11	5.17
9887.00	90.310	163.970	6300.28	3534.12	-2971.55	2168.81	1625070.45	333037.41	39°24'24.416"N	80°49'36.940"W	3678.84	143.876	1.10	0.07	-1.10
9976.00	90.280	161.850	6299.83	3623.00	-3056.61	2194.97	1625096.60	332952.35	39°24'23.579"N	80°49'36.590"W	3763.08	144.318	2.38	-0.03	-2.38
10066.00	90.460	161.250	6299.24	3712.96	-3141.98	2223.45	1625125.08	332866.98	39°24'22.739"N	80°49'36.212"W	3849.13	144.715	0.70	0.20	-0.67
10156.00	90.370	160.090	6298.59	3802.95	-3226.91	2253.24	1625154.86	332782.06	39°24'21.904"N	80°49'35.816"W	3935.73	145.075	1.29	-0.10	-1.29
10245.00	90.280	160.260	6298.09	3891.95	-3310.63	2283.42	1625185.05	332698.34	39°24'21.081"N	80°49'35.416"W	4021.73	145.405	0.22	-0.10	0.19
10335.00	90.370	159.540	6297.58	3981.95	-3395.15	2314.35	1625215.97	332613.83	39°24'20.251"N	80°49'35.006"W	4108.92	145.719	0.81	0.10	-0.80
10424.00	90.340	162.380	6297.03	4070.92	-3479.27	2343.38	1625245.00	332529.71	39°24'19.424"N	80°49'34.620"W	4194.85	146.039	3.19	-0.03	3.19
10514.00	90.280	160.320	6296.54	4160.89	-3564.53	2372.16	1625273.78	332444.45	39°24'18.585"N	80°49'34.238"W	4281.71	146.357	2.29	-0.07	-2.29
10603.00	90.210	158.660	6296.16	4249.89	-3647.89	2403.34	1625304.96	332361.10	39°24'17.766"N	80°49'33.825"W	4368.43	146.622	1.87	-0.08	-1.87
10693.00	90.400	158.500	6295.68	4339.86	-3731.67	2436.21	1625337.83	332277.32	39°24'16.943"N	80°49'33.391"W	4456.51	146.862	0.28	0.21	-0.18
10783.00	90.150	156.260	6295.25	4429.76	-3814.74	2470.82	1625372.44	332194.26	39°24'16.127"N	80°49'32.934"W	4545.02	147.069	2.50	-0.28	-2.49
10872.00	90.120	158.430	6295.04	4518.65	-3896.87	2505.10	1625406.71	332112.13	39°24'15.320"N	80°49'32.482"W	4632.62	147.265	2.44	-0.03	2.44
10962.00	89.970	158.090	6294.97	4608.61	-3980.47	2538.44	1625440.05	332028.54	39°24'14.499"N	80°49'32.042"W	4720.99	147.473	0.41	-0.17	-0.38
11051.00	89.750	161.150	6295.18	4697.60	-4063.89	2569.43	1625471.04	331945.12	39°24'13.679"N	80°49'31.631"W	4808.03	147.697	3.45	-0.25	3.44
11141.00	89.850	163.600	6295.50	4787.52	-4149.66	2596.67	1625498.28	331859.36	39°24'12.835"N	80°49'31.268"W	4895.14	147.963	2.72	0.11	2.72
11230.00	90.000	163.100	6295.61	4876.36	-4234.92	2622.18	1625523.78	331774.10	39°24'11.997"N	80°49'30.927"W	4981.00	148.235	0.59	0.17	-0.56
11320.00	90.000	156.860	6295.61	4966.32	-4319.44	2652.97	1625554.58	331689.58	39°24'11.166"N	80°49'30.519"W	5069.11	148.442	6.93	0.00	-6.93
11409.00	89.910	154.610	6295.68	5055.07	-4400.58	2689.54	1625591.15	331608.45	39°24'10.369"N	80°49'30.038"W	5157.39	148.568	2.53	-0.10	-2.53
11499.00	90.090	153.350	6295.66	5144.55	-4481.45	2729.03	1625630.63	331527.58	39°24'09.576"N	80°49'29.520"W	5247.00	148.660	1.41	0.20	-1.40
11589.00	89.850	156.420	6295.62	5233.93	-4562.93	2767.22	1625668.82	331446.11	39°24'08.776"N	80°49'29.018"W	5336.47	148.765	3.42	-0.27	3.41
11679.00	90.150	159.180	6295.73	5323.12	-4646.25	2801.22	1625702.82	331362.79	39°24'07.958"N	80°49'28.569"W	5425.36	148.914	3.08	0.33	3.07
11768.00	90.030	160.250	6295.59	5413.11	-4729.73	2832.08	1625733.67	331279.32	39°24'07.137"N	80°49'28.161"W	5512.81	149.088	1.21	-0.13	1.20
11858.00	90.220	162.390	6295.55	5502.99	-4814.99	2860.90	1625762.50	331194.07	39°24'06.299"N	80°49'27.777"W	5600.79	149.283	2.39	0.21	2.38
11947.00	90.120	164.710	6295.13	5591.71	-4900.34	2886.10	1625787.69	331108.72	39°24'05.459"N	80°49'27.440"W	5687.08	149.504	2.61	-0.11	2.61
12037.00	90.150	164.760	6294.92	5681.61	-4987.16	2909.80	1625811.39	331021.90	39°24'04.605"N	80°49'27.122"W	5773.97	149.738	0.06	0.03	0.06
12126.00	90.220	161.910	6294.63	5770.45	-5072.41	2935.32	1625836.91	330936.65	39°24'03.766"N	80°49'26.781"W	5860.50	149.943	3.20	0.08	-3.20
12216.00	90.250	162.670	6294.26	5860.37	-5158.15	2962.70	1625864.28	330850.92	39°24'02.922"N	80°49'26.416"W	5948.45	150.128	0.85	0.03	0.84

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Actual Wellpath Report

SHR-40C-HS AWP Proj: 16414'
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REFERENCE WELLPATH IDENTIFICATION

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Facility	SHR-40 Pad		

WELLPATH DATA (198 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]
14993.00	90.180	161.150	6290.67	8633.62	-7766.26	3905.41	1626806.94	328242.96	39°23'37.285"N	80°49'13.920"W	8692.93	153.304	0.31	-0.15	0.27
15083.00	90.150	162.240	6290.41	8723.58	-7851.70	3933.67	1626835.21	328157.52	39°23'36.445"N	80°49'13.544"W	8781.97	153.389	1.21	-0.03	1.21
15173.00	90.150	157.760	6290.18	8813.56	-7936.25	3964.45	1626865.98	328072.97	39°23'35.614"N	80°49'13.137"W	8871.35	153.456	4.98	0.00	-4.98
15262.00	90.220	156.680	6289.89	8902.45	-8018.31	3998.91	1626900.44	327990.92	39°23'34.808"N	80°49'12.682"W	8960.16	153.494	1.22	0.08	-1.21
15352.00	90.150	157.880	6289.60	8992.35	-8101.32	4033.67	1626935.20	327907.91	39°23'33.992"N	80°49'12.224"W	9049.97	153.531	1.34	-0.08	1.33
15441.00	90.220	157.470	6289.31	9081.27	-8183.65	4067.47	1626969.00	327825.59	39°23'33.184"N	80°49'11.778"W	9138.74	153.572	0.47	0.08	-0.46
15531.00	90.120	155.170	6289.04	9171.08	-8266.07	4103.62	1627005.14	327743.17	39°23'32.374"N	80°49'11.302"W	9228.63	153.598	2.56	-0.11	-2.56
15620.00	90.060	156.520	6288.90	9259.85	-8347.27	4140.04	1627041.56	327661.97	39°23'31.577"N	80°49'10.823"W	9317.56	153.620	1.52	-0.07	1.52
15710.00	90.090	161.350	6288.79	9349.80	-8431.23	4172.38	1627073.90	327578.02	39°23'30.752"N	80°49'10.396"W	9407.15	153.671	5.37	0.03	5.37
15800.00	90.180	160.130	6288.57	9439.79	-8516.19	4202.06	1627103.58	327493.06	39°23'29.917"N	80°49'10.002"W	9496.47	153.737	1.36	0.10	-1.36
15889.00	90.280	158.140	6288.22	9528.78	-8599.35	4233.76	1627135.28	327409.91	39°23'29.100"N	80°49'09.583"W	9585.07	153.787	2.24	0.11	-2.24
15979.00	90.220	159.890	6287.82	9618.76	-8683.38	4265.99	1627167.51	327325.88	39°23'28.274"N	80°49'09.157"W	9674.70	153.836	1.95	-0.07	1.94
16068.00	90.150	163.630	6287.54	9707.70	-8767.89	4293.84	1627195.36	327241.38	39°23'27.443"N	80°49'08.786"W	9762.84	153.908	4.20	-0.08	4.20
16158.00	90.060	168.210	6287.37	9797.20	-8855.16	4315.73	1627217.24	327154.11	39°23'26.584"N	80°49'08.491"W	9850.86	154.017	5.09	-0.10	5.09
16248.00	90.280	169.690	6287.11	9886.10	-8943.49	4332.98	1627234.49	327065.78	39°23'25.713"N	80°49'08.255"W	9937.85	154.151	1.66	0.24	1.64
16337.00	90.180	166.440	6286.75	9974.21	-9030.56	4351.38	1627252.89	326978.73	39°23'24.855"N	80°49'08.004"W	10024.24	154.273	3.65	-0.11	-3.65
16390.00	90.280	163.200	6286.53	10027.01	-9081.70	4365.26	1627266.77	326927.58	39°23'24.352"N	80°49'07.818"W	10076.35	154.328	6.12	0.19	-6.11
16414.00	90.280	163.200	6286.42	10050.97	-9104.68	4372.19	1627273.71	326904.61	39°23'24.126"N	80°49'07.725"W	10100.06	154.349	0.00	0.00	0.00

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47-095-02205 P

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWB
Facility	SHR-40 Pad		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SHR-40C-HS BHL Rev-3		6267.19	-9095.63	4395.30	1627296.81	326913.66	39°23'24.219"N	80°49'07.433"W	point
SHR-40C-HS LP Plat		6294.90	-333.00	1205.97	1624107.65	335675.81	39°24'50.350"N	80°49'49.703"W	point
SHR-40C-HS LP Rev-3		6300.00	-264.07	1180.88	1624082.57	335744.73	39°24'51.028"N	80°49'50.035"W	point
SHR-40 Pad LL		6599.36	33.67	20.84	1622922.59	336042.46	39°24'53.800"N	80°50'04.870"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: SHR-40C-HS AWB Ref Wellpath: SHR-40C-HS AWP Proj: 16414'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.40	4404.00	Generic gyro - northseeking (Standard)	01_MS Gyro <8-3/4"> (100'-4400')	SHR-40C-HS AWB
4404.00	5937.00	ISCWSA MWD, Rev. 2 (Standard)	02_SDI EM <8-3/4"> (4400')(4474'-5933')	SHR-40C-HS AWB
5937.00	16390.00	NaviTrak (AT Curve Short Speed)	03_BHI AT Curve <8-3/4"> (5937')(6009'-16390')	SHR-40C-HS AWB
16390.00	16414.00	Blind Drilling (std)	Projection to bit	SHR-40C-HS AWB

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Actual Wellpath Report

SHR-40C-HS AWP Proj: 16414'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot C
Area	Tyler County, WV	Well	SHR-40C-HS
Field	Tyler	Wellbore	SHR-40C-HS AWB
Facility	SHR-40 Pad		

COMMENTS

Wellpath general comments

API: 47-095-02205-0000
BHI Job #: 7255736
Rig: Precision 542
Duration: 5/24/2015-5/29/2015
MS Gyro <8-3/4"> (100'-4400')
SDI EM <8-3/4"> (4400')(4474'-5933')
BHI AT Curve <8-3/4"> (5937')(6009'-16390')
Projected MD at TD: 16414'

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47-095-02205-P

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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09/10/2021



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

Plugging H6A Horizontal Well Work Permit (API: 47-095-02205)

1 message

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

Thu, Sep 9, 2021 at 9:48 AM

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, “**SHR 40 CHS**”, API: (**47-095-02205**). 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

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157K

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2732K

09/10/2021