



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 SHR40 HHS
47-095-02210-00-00

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 HHS
Farm Name: NOBLE ENERGY, INC.
U.S. WELL NUMBER: 47-095-02210-00-00
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-40H-HS
3) API Well No. 47-095 - 02210

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 Rd
Spencer, WV 25276

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

- MUST RUN CEMENT BOND LOG ON PRODUCTION CASING TO GET CEMENT TOP.
- MUST CUT & REMOVE FREE CASING.

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Office of Oil and Gas
AUG 20 2021
WV Department of
Environmental Protection

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

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

09/10/2021

CNX GAS, LLC	47-095-02210P
Well Bore Diagram	
SHRL-40H-HS	

State: West Virginia
 County: Tyler
 Field: Shirley

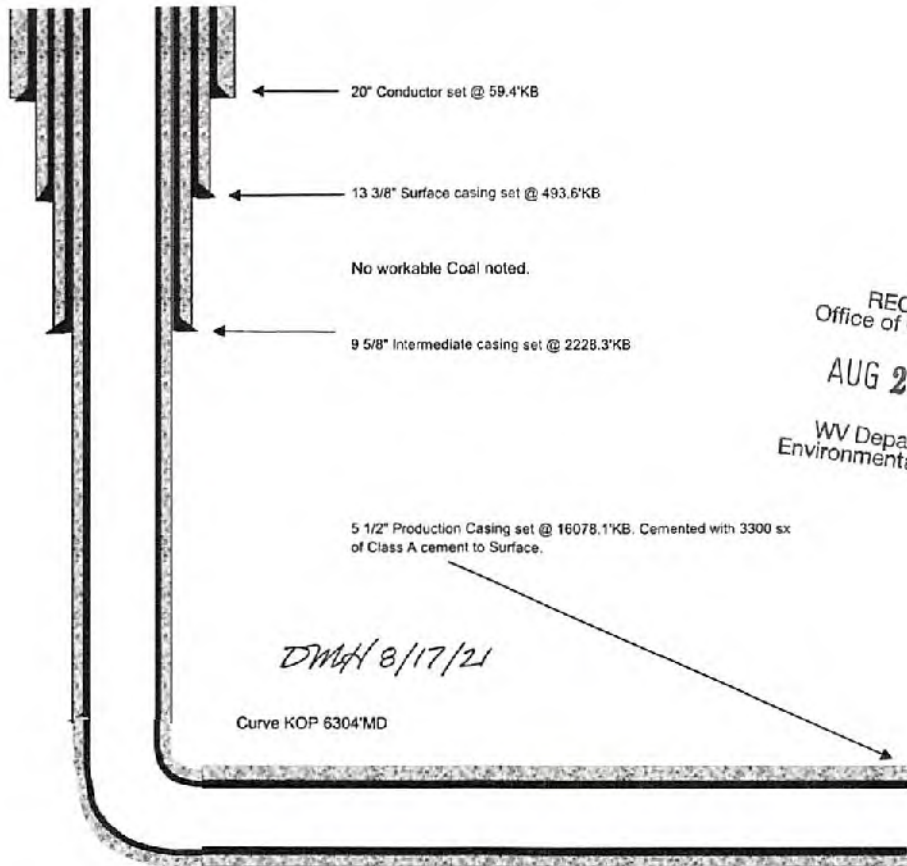
API #: 47-095-02210-00
 Lease #: _____
 Permit #: _____

Current Completion: **Burket**
 TD MD / TVD: 16092 6295
 Cased Hole Depth 16078.1 MD
Elevations 771 GL 19.4 KB
KOP: 6304 MD 5898 TVD
ETOC: Surface 3300 sx

Elev Corr 790.4
 Date Updated 8/9/2021

Casing

Conductor 20" Depth Set: 59.4	Grade and Weight: J55 54.5# BTC	Hole Size: 17.5"
Surface: 13 3/8" Depth Set: 493.6	Grade and Weight: HCK55 36# BTC	Hole Size: 12.25"
Intermed: 9 5/8" Depth Set: 2228.3	Grade and Weight: P110 20# BTC	Hole Size: 8.5"
Production 5 1/2" Depth Set: 16078.1	Grade and Weight: _____	
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.

DWA 8/17/21

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

API 47-095-02210 County Tyler District Centerville
Quad Shirley Pad Name SHR 40 Field/Pool Name NA
Farm name Noble Energy, Inc. Well Number SHR 40 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 4362848.76 Easting 514254.87
Landing Point of Curve Northing 4362799.48 Easting 514824.11
Bottom Hole Northing 4360267.22 Easting 515793.93

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

Date permit issued 12/18/2014 Date drilling commenced 03/09/2015 Date drilling ceased 06/28/2015
Date completion activities began NA Date completion activities ceased _____
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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Department of Environmental Protection

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

WR-35
Rev. 8/23/13

API 47-095 - 02210 Farm name Noble Energy, Inc. Well number SHR 40 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	36	20	40				
Surface	17 1/2	13 3/8	493.6	N	J-55 54.5#		Y
Coal							
Intermediate 1	13 3/8	9 5/8	2228.3	N	HCK-55 36#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4	5 1/2	16,078.1	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	425	15.6	1.20	69.0	0	8
Coal							
Intermediate 1	Class A	894	15.6	1.18	186.0	0	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead 720 Tail 2580	Lead 13.6 Tail 14.5	Lead 1.57 Tail 1.27	Lead 201.0 Tail 254.0	3000.0	8
Tubing							

Drillers TD (ft) 16,092 Loggers TD (ft) 16,068

Deepest formation penetrated Marcellus Plug back to (ft) Not a Pilot Hole

Plug back procedure Not a Pilot Hole

Kick off depth (ft) 6,083

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING
 Surface - 4 centralizers used, one every third joint Intermediate - 27 centralizers - bow spring centralizers on every joint to KOP, on every third joint from KOP to 100' from surface.
 Production - 308 center centralizers - 47 hinged 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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API 47- 095 - 02210 Farm name Noble Energy, Inc. Well number SHR 40 HHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	Well has not	Been Complete			

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)
	SEE ATTACHED STIMULATION							
	INFORMATION PER STAGE							
	RECORD							
	Well not	Completed	No Data	Available				

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Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

API 47-095-02210 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-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 _____

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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

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

09/10/2021

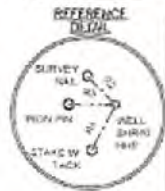
SHR 40 HHS Formations	Top	Base
Shale	0	1020
Shale and Sandstone	1020	1743
Big Lime	1743	1871
Big Injun	1871	1978
Price	1978	2129
Weir	2129	2233
Shale	2233	2320
Berea	2320	2328
Shale	2328	2509
Sandstone	2509	2611
Shale	2611	2747
Sandstone	2747	2765
Shale	2765	3239
Warren	3239	3285
Shale and Sandstone	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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09/10/2021

47-095-02210P

Well is located on topo map 594 feet south of Latitude: 39° 25' 00"



SURFACE WIRE LOCATION (SW)	APPROX LANDING POINT
WELL 17 - W09B3 N: 4362848.761 E: 514254.267 W0927 WV NORTH N: 336047.632 E: 1622852.940 LAT/LON DATUM=NAD83 LAT: 39.415040 LONG: -80.834607	WELL 17 - W09B3 N: 4362799.477 E: 514824.109 W0927 WV NORTH N: 335054.680 E: 1624618.220 LAT/LON DATUM=NAD83 LAT: 39.415505 LONG: -80.817795

BOTTOM WIRE LOCATION
WELL 17 - W09B3 N: 4360267.216 E: 515793.930 W0927 WV NORTH N: 327491.870 E: 1622862.030 LAT/LON DATUM=NAD83 LAT: 39.391752 LONG: -80.816589

WIRE TIE		
WIRE	BEARING	DISTANCE
R1	245 31' 11" E	282.00
R2	569 59' 14" E	214.00
R3	N 07° 49' 49" E	191.00
R4	197° 18' 44" E	171.00
R5	481° 34' 04" E	341.00



LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- WATER SOURCE
- LEAKED MATERIAL SHOWN ON ATTACHED DRAWING
- ALL WELLS UNLESS OTHERWISE NOTED
- MORNING WIRE
- BOTTOM WIRE
- FENCE LINE
- PROPOSED
- HORIZONTAL WELL
- WELL DEAPENING
- STANDARD WATERING
- ROAD

WELLS WIRELINE CODE

- ☉ DRIVING GAS WELL
- RECORD GAS WELL

NOTES

- This plan was prepared by the developer or operator within 180 days of completion of well.
- This plan was prepared within 180 days of completion of well.
- Proposed well location shall not have potential for a ground water discharge.
- This plan was prepared within 180 days of completion of well.
- Proposed well location shall not have potential for a ground water discharge.
- This plan was prepared within 180 days of completion of well.
- Proposed well location shall not have potential for a ground water discharge.
- This plan was prepared within 180 days of completion of well.
- Proposed well location shall not have potential for a ground water discharge.
- This plan was prepared within 180 days of completion of well.

PVE Sheffler
Ariston Corporate Park III, Suite 101
2000 Georgetown Drive
Sewickley, PA 15143-6992
Phone: 724-444-1100

FILE: SHR 40 HHS
DRAWING: SHR 40 HHS
SCALE: 1"=2500'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OR LOCATION: USGS MONUMENT 4 142 724 61

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

PLACE SEAL HERE

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

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

WATERSHED: MIDDLE ISLAND CREEK ELEVATION: 771'
COUNTY DISTRICT: CENTERVILLE / TYLER QUADRANGLE: SHIRLEY W VA
NEEDS OWNER: NOBLE ENERGY INC ACREAGE: 522.64
PRODUCTION OWNERS: DAVID I MAPLE ET AL ACREAGE: 367.43

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

TARGET FORMATION: BURKETT ESTIMATED DEPTH: TVD 6,295 ± 141D 16 1193
WELL OPERATOR: NOBLE ENERGY INC DESIGNATED AGENT: STEVEN M GREEN
Address: 235 TECHNOLOGY DRIVE, SUITE 130 Address: 500 VIRGINIA STREET EAST UNITED CENTER SUITE 580
City: CAROLSBURG State: PA Zip Code: 15217 City: CHARLESTON State: WV Zip Code: 25304



DATE: SEPTEMBER 4 2014
OPERATOR'S WELL #: SHR 40 HHS
API WELL #: 47 095
STATE: _____ COUNTY: _____ PERMIT: _____

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Office of Oil and Gas
AUG 20 2021
WV Department of
Environmental Protection

09/10/2021

WW-4A
Revised 6-07

1) Date: 8-16-2021
2) Operator's Well Number
SHRL-40H-HS
3) API Well No.: 47 - 095 - 02210

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

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 file with 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 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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Office of Oil and Gas
August 21 2021
WV Department of
Environmental Protection

Well Operator CNX Gas Company LLC
 By: Raymond Hoan 
 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
John L. Smith
My Commission Expires 6/19/22

Commonwealth of Pennsylvania
Vicki L. Smith, Notary P
Notary Public Indiana County
My commission expires Jun
Commission number 1108812
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

47-095-02210P

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

Extra Services & Fees (check box, add fee if 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

Sent To: CNX Gas Company LLC
 Street: 1000 Consol Energy Dr.
 City, State: Canonsburg, PA 15317

PS Form 3800, April 2018 PSN 7530-02-000-9001 Instructions



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09/10/2021

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) Middle Island Creek Quadrangle Shirley

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

DMAH 8/17/21

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

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

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

Additives to be used in drilling medium? na

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

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

-Landfill or offsite name/permit number? na

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 and 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.

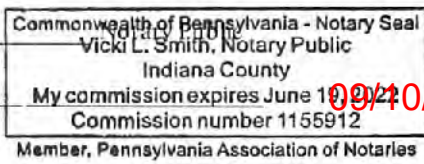
Company Official Signature *Raymond Hoon*

Company Official (Typed Name) Raymond Hoon

Company Official Title Senior Project Manager

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

My commission expires 6/19/22



OFFICE RECEIVED
Office of Oil and Gas
AUG 20 2021
Environmental Protection

09/10/2021

Member Pennsylvania Association of Notaries
Commission number 115512
My commission expires June 19, 2022
Indiana County
Vicki L. Smith, Notary Public
Commonwealth of Pennsylvania - Notary Seal

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

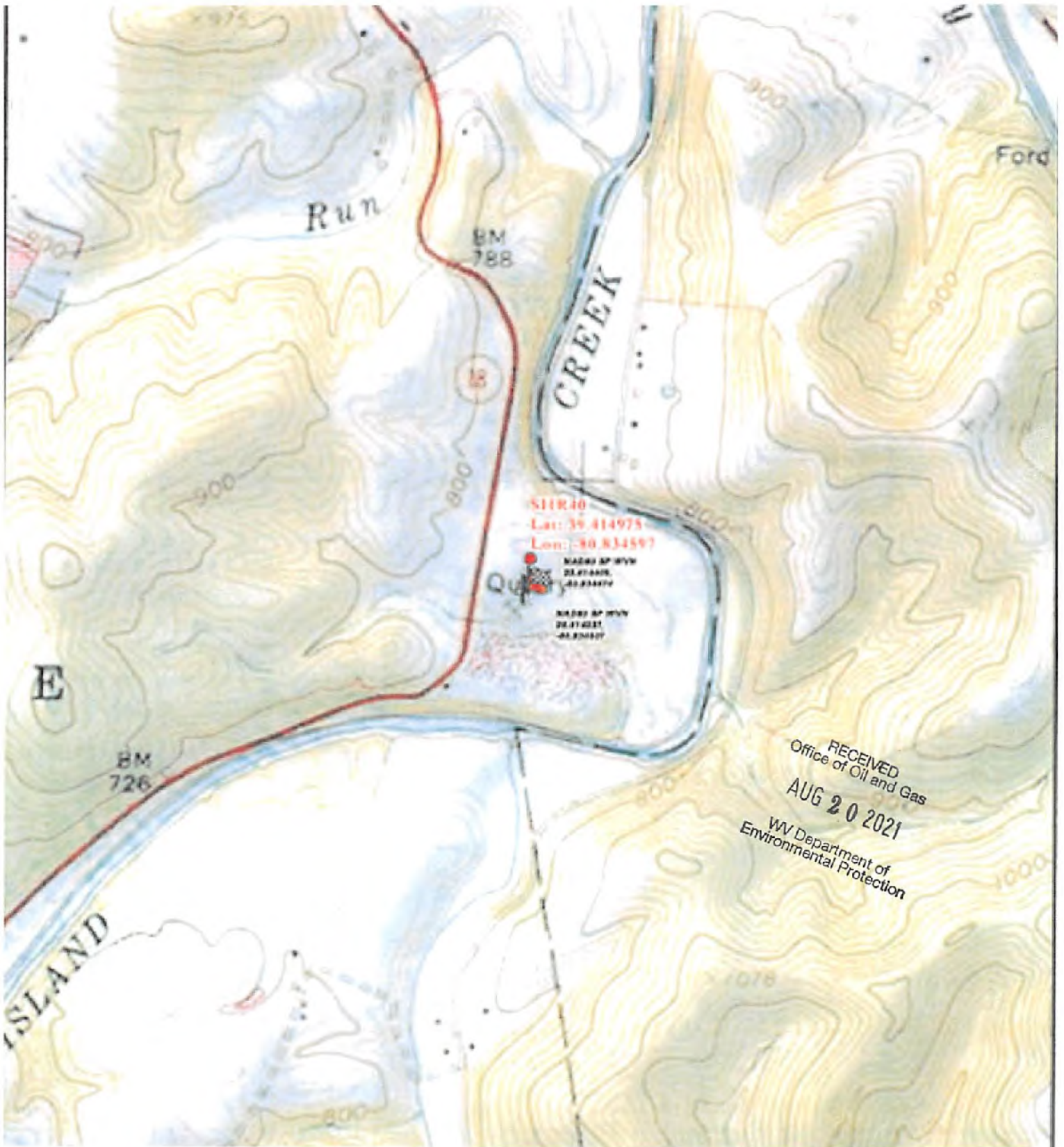
Comments: _____

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WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 8/17/21

Field Reviewed? (X) Yes () No



WW-7
8-30-06



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

API: 4709502210 WELL NO.: SHRL-40H-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: 4362848.761
UTM GPS EASTING: 514254.867 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 _____

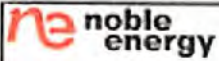
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4. **Letter size copy of the topography map showing the well location.**
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature] _____ Project Manager _____ 8-18-21 _____
Signature Title Date

09/10/2021

47-095-02210F



NOBLE ENERGY

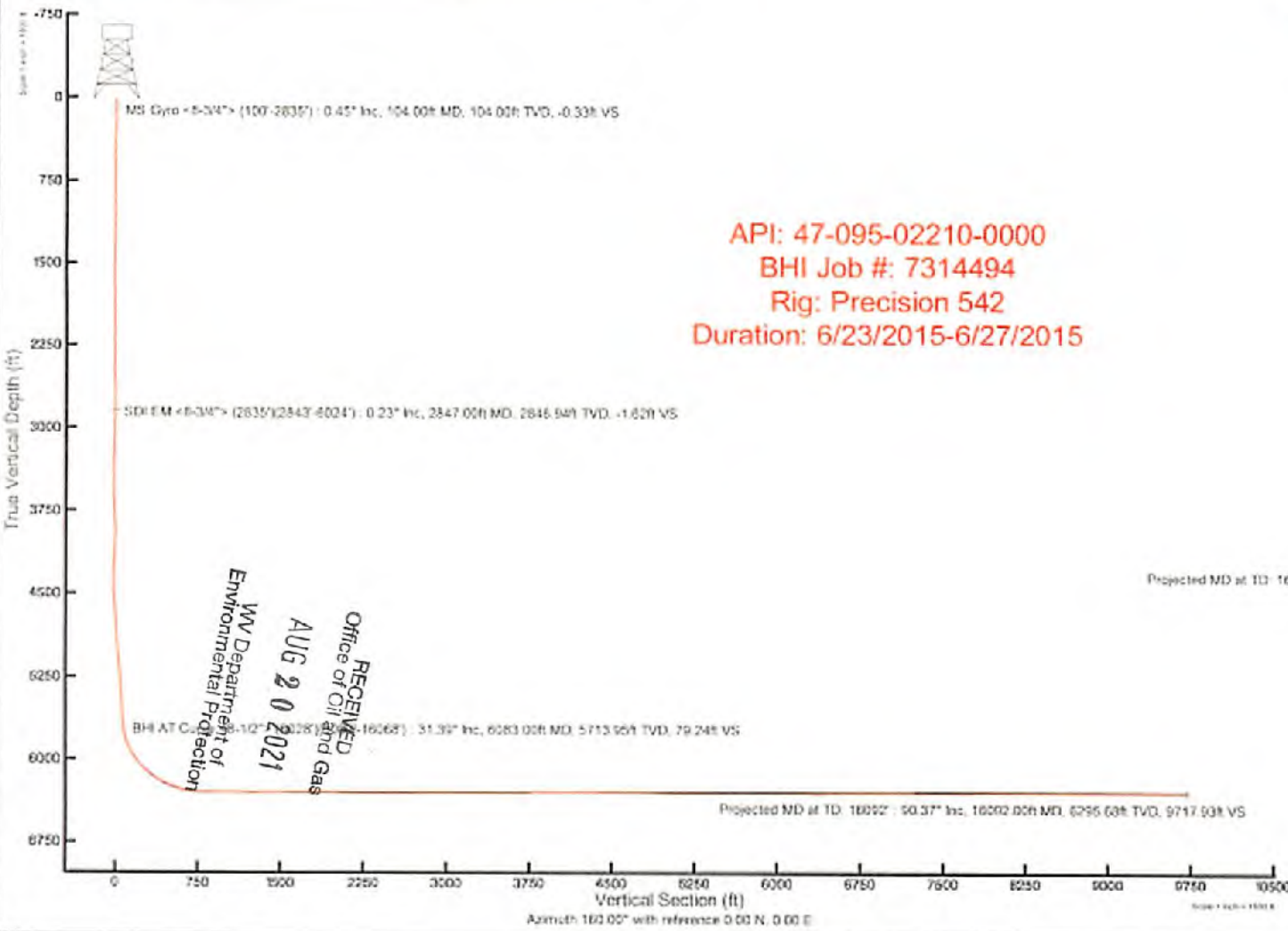


Location: Tyler County, WV
Field: Tyler
Facility: SHR-40 Pad

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

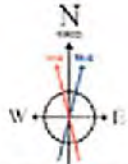
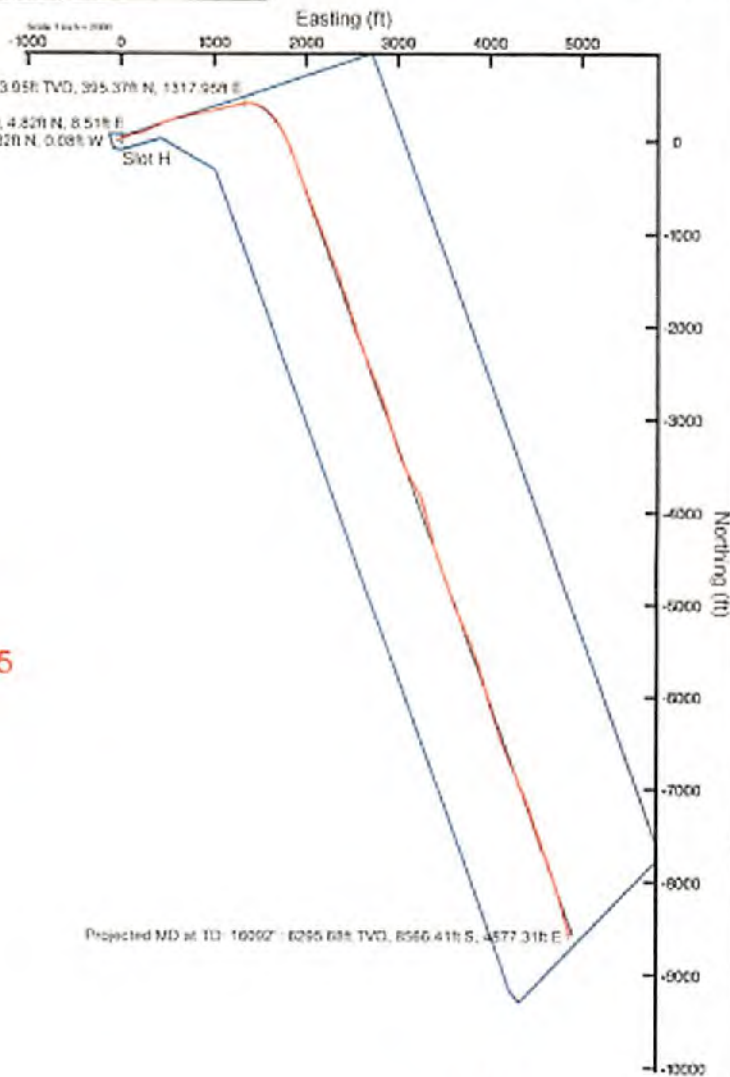
The following addresses are for informational purposes only.	User Agency: 100101 (1) Federal Road, Dayton, OH 45424 (2015)
Street address for the wellhead location (Precision 542) (2015)	North Address: 100101
Location for the wellhead location (Precision 542) (2015)	State: Ohio
Location for the wellhead location (Precision 542) (2015)	County: Hamilton
Location for the wellhead location (Precision 542) (2015)	City: Dayton

Location Information					
Facility Name	Grid East (US FT)	Grid North (US FT)	Latitude	Longitude	
SHR-40 Pad	1822927.880	336012.454	39°24'53.8007N	89°50'54.8797W	
SHR-40H-HS	1822927.880	336012.454	39°24'53.8007N	89°50'54.8797W	
SHR-40H-HS PWB	1822927.880	336012.454	39°24'53.8007N	89°50'54.8797W	



API: 47-095-02210-0000
 BHI Job #: 7314494
 Rig: Precision 542
 Duration: 6/23/2015-6/27/2015

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User supplied (1) DGM Data: 46.90° True: 52302 at
 Magnetic North is 7.59 degrees West of True North (at 15/Nov/2015)
 Grid North is 0.85 degrees West of True North
 To correct azimuth from True to Grid add 0.85 degrees
 To correct azimuth from Magnetic to Grid add 18.74 degrees

47-095-02210f



Actual Wellpath Report

SHR-40H-IIS AWP Proj: 16092'
Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-IIS
Field	Tyler	Wellbore	SHR-40H-IIS 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	30/Jun/2015 at 10:28
Convergence at slot	0.85° West	Database/Source file	WellArchitectEasternDB/SHR-40H-IIS_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	5.16	30.33	1622952.92	336047.62	39°24'53.855"N	80°50'04.485"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	788.75ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	788.75ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot H)	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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Actual Wellpath Report

SHR-40H-IIS AWP Proj: 16092'

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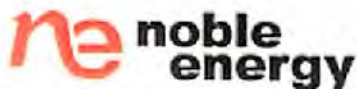


REFERENCE WELLPATH IDENTIFICATION																	
Operator	NOBLE ENERGY										Slot	Slot II					
Area	Tyler County, WV										Well	SHR-40H-IIS					
Field	Tyler										Wellbore	SHR-40H-IIS AWP					
Facility	SHR-40 Pad																

WELLPATH DATA (193 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	345.780	0.00	0.00	0.00	0.00	1622952.92	336047.62	39°24'53.855"N	80°50'04.485"W	0.00	0.000	0.00	0.00	0.00	
19.40	0.000	345.780	19.40	0.00	0.00	0.00	1622952.92	336047.62	39°24'53.855"N	80°50'04.485"W	0.00	0.000	0.00	0.00	0.00	
104.00	0.450	345.780	104.00	-0.33	0.32	-0.08	1622952.84	336047.94	39°24'53.859"N	80°50'04.486"W	0.33	345.780	0.53	0.53	0.00	
204.00	0.430	337.020	204.00	-1.10	1.05	-0.32	1622952.60	336048.67	39°24'53.866"N	80°50'04.489"W	1.10	342.795	0.07	-0.02	-8.76	
304.00	0.340	20.700	303.99	-1.70	1.67	-0.37	1622952.55	336049.29	39°24'53.872"N	80°50'04.490"W	1.71	347.641	0.30	-0.09	-43.68	
404.00	0.250	21.920	403.99	-2.08	2.15	-0.18	1622952.74	336049.77	39°24'53.877"N	80°50'04.487"W	2.16	355.220	0.09	-0.09	1.22	
504.00	0.260	33.370	503.99	-2.38	2.54	0.03	1622952.95	336050.16	39°24'53.881"N	80°50'04.485"W	2.54	0.594	0.05	0.01	11.45	
604.00	0.310	33.180	603.99	-2.68	2.96	0.30	1622953.22	336050.58	39°24'53.885"N	80°50'04.481"W	2.97	5.774	0.05	0.05	-0.19	
704.00	0.330	32.960	703.99	-3.01	3.43	0.60	1622953.52	336051.05	39°24'53.889"N	80°50'04.477"W	3.48	9.995	0.02	0.02	-0.22	
804.00	0.390	14.060	803.99	-3.47	4.00	0.84	1622953.76	336051.62	39°24'53.895"N	80°50'04.475"W	4.09	11.909	0.13	0.06	-18.90	
904.00	0.340	335.740	903.99	-4.05	4.60	0.80	1622953.72	336052.22	39°24'53.901"N	80°50'04.475"W	4.67	9.916	0.24	-0.05	-38.32	
1004.00	0.190	317.890	1003.98	-4.50	4.99	0.57	1622953.49	336052.61	39°24'53.905"N	80°50'04.478"W	5.03	6.524	0.17	-0.15	-17.85	
1104.00	0.100	21.260	1103.98	-4.72	5.20	0.49	1622953.41	336052.82	39°24'53.907"N	80°50'04.479"W	5.22	5.402	0.17	-0.09	63.37	
1204.00	0.250	36.240	1203.98	-4.90	5.45	0.65	1622953.57	336053.07	39°24'53.909"N	80°50'04.477"W	5.49	6.817	0.16	0.15	14.98	
1304.00	0.270	52.390	1303.98	-5.10	5.77	0.97	1622953.89	336053.39	39°24'53.913"N	80°50'04.473"W	5.85	9.514	0.08	0.02	16.15	
1404.00	0.590	66.630	1403.98	-5.20	6.12	1.63	1622954.55	336053.74	39°24'53.916"N	80°50'04.465"W	6.33	14.882	0.33	0.32	14.24	
1504.00	0.650	62.380	1503.97	-5.30	6.59	2.60	1622955.52	336054.21	39°24'53.921"N	80°50'04.453"W	7.08	21.549	0.08	0.06	-4.25	
1604.00	0.420	51.870	1603.97	-5.49	7.08	3.39	1622956.31	336054.70	39°24'53.926"N	80°50'04.443"W	7.85	25.610	0.25	-0.23	-10.51	
1704.00	0.270	94.310	1703.97	-5.51	7.29	3.92	1622956.84	336054.91	39°24'53.928"N	80°50'04.436"W	8.27	28.254	0.29	-0.15	42.44	
1804.00	0.400	117.800	1803.97	-5.15	7.11	4.46	1622957.38	336054.73	39°24'53.926"N	80°50'04.429"W	8.39	32.111	0.19	0.13	23.49	
1904.00	0.700	103.900	1903.97	-4.55	6.80	5.36	1622958.28	336054.42	39°24'53.923"N	80°50'04.418"W	8.66	38.267	0.33	0.30	-13.90	
2004.00	0.590	77.770	2003.97	-4.14	6.76	6.46	1622959.38	336054.38	39°24'53.923"N	80°50'04.404"W	9.35	43.692	0.31	-0.11	-26.13	
2104.00	0.310	94.810	2103.97	-3.96	6.85	7.23	1622960.15	336054.47	39°24'53.924"N	80°50'04.394"W	9.96	46.565	0.31	-0.28	17.04	
2204.00	0.540	125.710	2203.95	-3.44	6.55	7.88	1622960.80	336054.17	39°24'53.921"N	80°50'04.385"W	10.25	50.284	0.32	0.23	30.90	
2304.00	0.530	137.430	2303.94	-2.92	5.93	8.58	1622961.50	336053.55	39°24'53.915"N	80°50'04.376"W	10.43	55.333	0.11	-0.01	11.72	
2404.00	0.340	89.270	2403.94	-2.22	5.60	9.19	1622962.11	336053.22	39°24'53.912"N	80°50'04.369"W	10.76	58.657	0.40	-0.19	-48.16	
2504.00	0.150	223.480	2503.94	-1.76	5.50	9.39	1622962.31	336053.12	39°24'53.911"N	80°50'04.366"W	10.89	59.633	0.46	-0.19	134.21	
2604.00	0.340	206.360	2603.94	-1.70	5.14	9.17	1622962.09	336052.76	39°24'53.908"N	80°50'04.369"W	10.52	60.718	0.20	0.19	-17.12	
2704.00	0.150	206.310	2703.94	-1.40	4.76	8.98	1622961.90	336052.38	39°24'53.904"N	80°50'04.371"W	10.17	62.079	0.19	-0.19	-0.05	
2804.00	0.280	305.010	2803.94	-1.51	4.78	8.72	1622961.64	336052.40	39°24'53.904"N	80°50'04.374"W	9.95	61.266	0.34	0.13	98.70	

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Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (193 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]
2839.00	0.380	270.700	2838.94	-1.62	4.83	8.54	1622961.46	336052.45	39°24'53.904"N	80°50'04.377"W	9.81	60.485	0.62	0.29	-98.03
2847.00	0.230	198.550	2846.94	-1.62	4.82	8.51	1622961.43	336052.44	39°24'53.904"N	80°50'04.377"W	9.78	60.470	4.74	-1.87	-901.87
2892.00	0.440	56.950	2891.94	-1.59	4.83	8.62	1622961.54	336052.45	39°24'53.904"N	80°50'04.376"W	9.88	60.758	1.41	0.47	-314.67
2980.00	3.280	39.960	2979.88	-2.92	6.94	10.52	1622963.44	336054.56	39°24'53.926"N	80°50'04.352"W	12.61	56.589	3.25	3.23	-19.31
3068.00	4.820	44.230	3067.66	-5.79	11.52	14.72	1622967.64	336059.14	39°24'53.971"N	80°50'04.299"W	18.69	51.950	1.78	1.75	-4.85
3112.00	5.010	44.320	3111.50	-7.43	14.22	17.35	1622970.27	336061.84	39°24'53.999"N	80°50'04.266"W	22.43	50.664	0.43	0.43	0.20
3157.00	5.470	49.010	3156.31	-9.05	17.03	20.34	1622973.26	336064.65	39°24'54.027"N	80°50'04.229"W	26.53	50.062	1.40	1.02	10.42
3201.00	6.330	51.620	3200.08	-10.56	19.91	23.83	1622976.75	336067.53	39°24'54.056"N	80°50'04.185"W	31.05	50.112	2.05	1.95	5.93
3245.00	7.210	60.260	3243.77	-11.80	22.79	28.13	1622981.05	336070.41	39°24'54.085"N	80°50'04.131"W	36.20	50.983	3.05	2.00	19.64
3289.00	8.300	64.890	3287.37	-12.55	25.51	33.40	1622986.32	336073.13	39°24'54.112"N	80°50'04.064"W	42.03	52.631	2.85	2.48	10.52
3333.00	9.910	64.420	3330.81	-13.20	28.49	39.69	1622992.61	336076.11	39°24'54.143"N	80°50'03.984"W	48.86	54.329	3.66	3.66	-1.07
3378.00	11.430	63.530	3375.03	-14.08	32.15	47.18	1623000.09	336079.77	39°24'54.180"N	80°50'03.890"W	57.09	55.726	3.40	3.38	-1.98
3422.00	12.660	64.450	3418.06	-15.03	36.17	55.43	1623008.35	336083.79	39°24'54.221"N	80°50'03.785"W	66.19	56.872	2.83	2.80	2.09
3466.00	13.260	69.370	3460.94	-15.56	40.03	64.50	1623017.42	336087.65	39°24'54.261"N	80°50'03.670"W	75.91	58.176	2.85	1.36	11.18
3510.00	13.410	72.960	3503.76	-15.35	43.30	74.10	1623027.02	336090.92	39°24'54.294"N	80°50'03.549"W	85.83	59.699	1.91	0.34	8.16
3554.00	14.180	74.370	3546.49	-14.67	46.25	84.17	1623037.09	336093.87	39°24'54.325"N	80°50'03.421"W	96.04	61.212	1.91	1.75	3.20
3599.00	15.950	75.070	3589.94	-13.71	49.33	95.45	1623048.37	336096.95	39°24'54.357"N	80°50'03.278"W	107.45	62.671	3.95	3.93	1.56
3643.00	17.640	74.830	3632.06	-12.61	52.63	107.73	1623060.65	336100.25	39°24'54.391"N	80°50'03.122"W	119.90	63.962	3.84	3.84	-0.55
3687.00	19.400	75.750	3673.78	-11.32	56.18	121.25	1623074.16	336103.79	39°24'54.428"N	80°50'02.950"W	133.63	65.142	4.05	4.00	2.09
3731.00	20.790	78.350	3715.10	-9.45	59.55	135.98	1623088.89	336107.17	39°24'54.464"N	80°50'02.763"W	148.45	66.350	3.75	3.16	5.91
3775.00	21.910	80.170	3756.08	-7.87	62.53	151.72	1623104.63	336110.15	39°24'54.496"N	80°50'02.564"W	164.10	67.601	2.96	2.55	4.14
3819.00	23.400	81.440	3796.69	-6.69	65.22	168.45	1623121.36	336112.85	39°24'54.525"N	80°50'02.351"W	180.64	68.831	3.56	3.39	2.89
3863.00	24.490	78.680	3836.90	-5.58	68.03	186.03	1623138.94	336115.94	39°24'54.558"N	80°50'02.127"W	198.18	69.834	3.55	2.48	-6.27
3908.00	26.650	76.260	3877.49	-4.93	72.72	204.98	1623157.89	336120.17	39°24'54.603"N	80°50'01.887"W	217.44	70.509	5.33	4.80	-5.38
3952.00	27.970	72.560	3916.59	-3.47	77.92	224.42	1623177.32	336125.60	39°24'54.659"N	80°50'01.640"W	237.58	70.837	4.89	3.00	-8.41
4040.00	30.890	66.950	3993.24	-1.31	83.92	264.91	1623217.81	336140.64	39°24'54.814"N	80°50'01.127"W	280.76	70.651	4.56	3.32	-6.38
4128.00	31.390	65.070	4068.56	0.61	88.55	306.47	1623259.38	336159.14	39°24'55.003"N	80°50'00.601"W	326.14	70.003	1.24	0.57	-2.14
4217.00	33.930	65.070	4143.49	-1.11	93.77	350.03	1623302.93	336179.38	39°24'55.209"N	80°50'00.050"W	374.01	69.370	2.85	2.85	0.00
4305.00	33.200	62.260	4216.82	-9.46	153.34	393.62	1623346.52	336200.95	39°24'55.429"N	80°49'59.499"W	422.44	68.716	1.95	-0.83	-3.19
4393.00	32.780	66.000	4290.63	-14.37	174.25	436.71	1623389.61	336221.86	39°24'55.642"N	80°49'58.954"W	470.19	68.248	2.36	-0.48	-4.25

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Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (193 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]
4482.00	34.910	71.160	4364.56	-15.54	192.27	482.84	1623435.74	336239.88	39°24'55.826"N	80°49'58.370"W	519.72	68.287	4.02	2.39	5.80
4570.00	35.280	71.710	4436.57	-14.27	208.38	530.80	1623483.69	336255.99	39°24'55.993"N	80°49'57.762"W	570.24	68.566	0.55	0.42	0.63
4658.00	34.300	75.840	4508.85	-10.99	222.43	578.98	1623531.87	336270.03	39°24'56.139"N	80°49'57.150"W	620.24	68.985	2.90	-1.11	4.69
4747.00	32.310	80.250	4583.24	-4.20	232.59	626.75	1623579.64	336280.20	39°24'56.246"N	80°49'56.544"W	668.52	69.640	3.52	-2.24	4.96
4835.00	30.920	77.100	4658.18	2.78	241.62	671.97	1623624.86	336289.23	39°24'56.342"N	80°49'55.969"W	714.09	70.223	2.45	-1.58	-3.58
4923.00	30.960	73.780	4733.66	7.07	252.99	715.75	1623668.63	336300.60	39°24'56.461"N	80°49'55.414"W	759.15	70.533	1.94	0.05	-3.77
5012.00	30.830	73.970	4810.03	10.15	265.68	759.65	1623712.53	336313.29	39°24'56.592"N	80°49'54.857"W	804.77	70.723	0.18	-0.15	0.21
5100.00	30.000	77.510	4885.93	14.59	276.67	802.81	1623755.68	336324.28	39°24'56.707"N	80°49'54.309"W	849.14	70.985	2.24	-0.94	-4.02
5189.00	31.830	79.520	4962.28	21.38	285.75	847.61	1623800.49	336333.36	39°24'56.804"N	80°49'53.740"W	894.48	71.370	2.36	2.06	2.26
5277.00	34.280	78.980	5036.04	29.09	294.71	894.76	1623847.64	336342.32	39°24'56.899"N	80°49'53.141"W	942.05	71.769	2.80	2.78	-0.61
5365.00	35.050	79.380	5108.41	37.08	304.11	943.93	1623896.79	336351.71	39°24'56.999"N	80°49'52.516"W	991.70	72.143	0.91	0.87	0.45
5454.00	33.570	75.620	5181.93	43.65	314.93	992.89	1623945.75	336362.53	39°24'57.113"N	80°49'51.895"W	1041.64	72.402	2.90	-1.66	-4.22
5542.00	34.560	75.930	5254.83	48.61	327.04	1040.67	1623993.53	336374.64	39°24'57.240"N	80°49'51.288"W	1090.85	72.554	1.14	1.13	0.35
5630.00	34.230	76.150	5327.45	53.84	339.03	1088.91	1624041.77	336386.63	39°24'57.366"N	80°49'50.676"W	1140.47	72.706	0.40	-0.38	0.25
5719.00	32.630	76.090	5401.72	59.07	350.79	1136.51	1624089.37	336398.39	39°24'57.489"N	80°49'50.072"W	1189.42	72.847	1.80	-1.80	-0.07
5807.00	29.870	72.520	5476.95	62.55	363.08	1180.45	1624133.31	336410.68	39°24'57.617"N	80°49'49.514"W	1235.03	72.903	3.78	-3.14	-4.06
5895.00	29.710	74.770	5553.33	65.33	375.39	1222.40	1624175.25	336422.99	39°24'57.744"N	80°49'48.982"W	1278.74	72.928	1.28	-0.18	2.56
5984.00	31.570	78.650	5629.90	70.67	385.77	1266.53	1624219.38	336433.37	39°24'57.853"N	80°49'48.422"W	1323.98	73.060	3.05	2.09	4.36
6072.00	32.330	80.420	5667.24	74.53	390.00	1289.42	1624242.27	336437.60	39°24'57.899"N	80°49'48.131"W	1347.11	73.171	2.74	1.73	4.02
6083.00	31.390	78.220	5713.55	79.24	395.37	1317.95	1624270.80	336442.97	39°24'57.956"N	80°49'47.769"W	1375.97	73.301	2.72	-1.71	-4.00
6125.00	31.030	80.660	5742.80	82.80	399.36	1339.34	1624292.18	336446.96	39°24'57.998"N	80°49'47.497"W	1397.61	73.397	3.13	-0.86	5.81
6216.00	33.850	98.600	5820.32	89.32	399.38	1387.66	1624340.51	336446.98	39°24'58.006"N	80°49'46.881"W	1443.99	73.944	10.98	3.10	19.71
6304.00	36.430	110.790	5899.28	99.28	386.42	1436.39	1624389.23	336434.02	39°24'57.885"N	80°49'46.258"W	1487.46	74.943	8.48	2.93	13.85
6394.00	39.830	120.650	5979.55	109.55	362.21	1486.23	1624439.07	336409.81	39°24'57.653"N	80°49'45.618"W	1529.73	76.303	7.74	3.78	10.96
6483.00	45.280	130.010	6060.35	119.35	327.29	1535.06	1624487.90	336374.89	39°24'57.315"N	80°49'44.990"W	1569.56	77.964	9.37	6.12	10.52
6573.00	50.350	134.570	6143.78	129.78	282.38	1584.28	1624537.11	336329.98	39°24'56.878"N	80°49'44.354"W	1609.25	79.894	6.77	5.63	5.07
6663.00	55.030	135.770	6230.32	140.32	344.06	1634.71	1624587.54	336279.22	39°24'56.384"N	80°49'43.702"W	1651.04	81.936	5.31	5.20	1.33
6753.00	62.140	143.220	6319.25	151.25	313.35	1731.19	1624637.20	336220.80	39°24'55.814"N	80°49'43.059"W	1693.25	84.130	10.59	7.90	8.28
6842.00	66.560	149.260	6415.79	162.79	278.50	1828.85	1624681.68	336154.12	39°24'55.161"N	80°49'42.479"W	1732.13	86.475	7.88	4.97	6.79
6932.00	71.980	152.960	6519.65	175.65	249.44	1944.45	1624722.27	336080.44	39°24'54.439"N	80°49'41.948"W	1769.76	88.937	7.14	6.02	4.11

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Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (193 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]
7022.00	81.440	155.700	6288.32	661.40	-46.04	1807.31	1624760.13	336001.58	39°24'53.665"N	80°49'41.451"W	1807.90	91.459	10.92	10.51	3.04
7111.00	89.540	159.100	6295.31	749.95	-127.88	1841.36	1624794.18	335919.75	39°24'52.861"N	80°49'41.002"W	1845.79	93.973	9.86	9.10	3.82
7201.00	88.340	159.780	6296.98	839.93	-212.13	1872.96	1624825.78	335835.50	39°24'52.033"N	80°49'40.583"W	1884.93	96.462	1.53	-1.33	0.76
7290.00	87.900	160.760	6299.90	928.88	-295.86	1902.99	1624855.80	335751.78	39°24'51.210"N	80°49'40.185"W	1925.85	98.837	1.21	-0.49	1.10
7380.00	88.830	159.720	6302.47	1018.84	-380.52	1933.40	1624886.22	335667.12	39°24'50.378"N	80°49'39.782"W	1970.49	101.134	1.55	1.03	-1.16
7470.00	89.850	159.500	6303.50	1108.83	-464.88	1964.76	1624917.57	335582.77	39°24'49.549"N	80°49'39.366"W	2019.00	103.312	1.16	1.13	-0.24
7559.00	89.940	158.730	6303.67	1197.82	-548.03	1996.48	1624949.30	335499.62	39°24'48.732"N	80°49'38.946"W	2070.33	105.349	0.87	0.10	-0.87
7649.00	90.000	158.470	6303.71	1287.79	-631.82	2029.32	1624982.13	335415.83	39°24'47.909"N	80°49'38.512"W	2125.41	107.294	0.30	0.07	-0.29
7738.00	90.060	158.080	6303.67	1376.75	-714.50	2062.27	1625015.07	335333.16	39°24'47.096"N	80°49'38.077"W	2182.53	109.109	0.44	0.07	-0.44
7828.00	90.000	158.220	6303.62	1466.70	-798.04	2095.76	1625048.57	335249.63	39°24'46.276"N	80°49'37.635"W	2242.56	110.846	0.17	-0.07	0.16
7917.00	89.940	158.240	6303.67	1555.66	-880.69	2128.77	1625081.58	335166.98	39°24'45.464"N	80°49'37.199"W	2303.75	112.475	0.07	-0.07	0.02
8007.00	90.060	158.180	6303.67	1645.61	-964.26	2162.18	1625114.98	335083.42	39°24'44.643"N	80°49'36.757"W	2367.45	114.035	0.15	0.13	-0.07
8097.00	90.000	158.940	6303.62	1735.59	-1048.03	2195.08	1625147.88	334999.65	39°24'43.820"N	80°49'36.322"W	2432.43	115.522	0.85	-0.07	0.84
8186.00	90.030	159.920	6303.59	1824.58	-1131.35	2226.35	1625179.15	334916.33	39°24'43.001"N	80°49'35.908"W	2497.32	116.938	1.10	0.03	1.10
8276.00	90.030	160.120	6303.55	1914.58	-1215.94	2257.10	1625209.90	334831.75	39°24'42.169"N	80°49'35.501"W	2563.79	118.312	0.22	0.00	0.22
8365.00	89.970	157.760	6303.55	2003.56	-1298.99	2289.08	1625241.87	334748.70	39°24'41.353"N	80°49'35.078"W	2631.97	119.574	2.65	-0.07	-2.65
8455.00	89.420	157.620	6304.03	2093.48	-1382.25	2323.24	1625276.04	334665.45	39°24'40.536"N	80°49'34.627"W	2703.34	120.751	0.63	-0.61	-0.16
8545.00	89.540	160.180	6304.84	2183.46	-1466.20	2355.64	1625308.43	334581.50	39°24'39.711"N	80°49'34.198"W	2774.67	121.899	2.85	0.13	2.84
8634.00	90.000	161.110	6305.20	2272.45	-1550.17	2385.14	1625337.93	334497.53	39°24'38.885"N	80°49'33.807"W	2844.63	123.021	1.17	0.52	1.04
8723.00	90.120	160.640	6305.11	2361.44	-1634.26	2414.29	1625367.08	334413.45	39°24'38.058"N	80°49'33.419"W	2915.41	124.094	0.55	0.13	-0.53
8813.00	90.030	160.300	6304.90	2451.43	-1719.08	2444.38	1625397.17	334328.63	39°24'37.224"N	80°49'33.020"W	2988.35	125.118	0.39	-0.10	-0.38
8903.00	90.280	162.000	6304.55	2541.40	-1804.36	2473.13	1625425.92	334243.36	39°24'36.386"N	80°49'32.638"W	3061.39	126.114	2.39	0.28	2.38
8992.00	90.460	163.000	6304.17	2630.27	-1889.50	2499.05	1625451.83	334158.22	39°24'35.548"N	80°49'32.292"W	3132.96	127.092	1.43	0.20	1.42
9082.00	90.090	163.000	6303.74	2720.07	-1975.92	2524.16	1625476.95	334071.81	39°24'34.698"N	80°49'31.956"W	3205.57	128.054	0.46	-0.41	0.21
9171.00	90.150	162.000	6303.55	2808.95	-2061.04	2550.14	1625502.92	333986.69	39°24'33.860"N	80°49'31.609"W	3278.89	128.945	1.93	0.07	-1.93
9261.00	90.150	162.000	6303.33	2898.91	-2146.42	2578.60	1625531.38	333901.31	39°24'33.021"N	80°49'31.230"W	3355.04	129.774	1.34	0.00	-1.34
9350.00	90.220	160.720	6303.14	2987.91	-2230.23	2608.54	1625561.32	333817.51	39°24'32.197"N	80°49'30.833"W	3431.97	130.530	1.40	0.08	-1.39
9440.00	90.180	158.200	6302.72	3077.89	-2314.23	2640.85	1625593.63	333733.52	39°24'31.372"N	80°49'30.406"W	3511.37	131.229	1.69	-0.04	-1.69
9529.00	90.030	157.830	6302.55	3166.83	-2396.76	2674.17	1625626.94	333650.99	39°24'30.561"N	80°49'29.966"W	3591.05	131.869	0.45	-0.17	-0.42
9619.00	90.310	156.450	6302.29	3256.72	-2479.69	2709.13	1625661.90	333568.07	39°24'29.746"N	80°49'29.505"W	3672.63	132.468	1.56	0.31	-1.53

WV Department of Environmental Protection
 Office of Oil and Gas
 AUG 20 2021

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Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'
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REFERENCE WELLPATH IDENTIFICATION

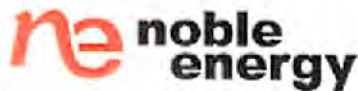
Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

WELLPATH DATA (193 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]
9708.00	90.250	157.900	6301.85	3345.61	-2561.71	2743.66	1625696.43	333486.05	39°24'28.941"N	80°49'29.050"W	3753.67	133.036	1.63	-0.07	1.63
9797.00	90.370	158.930	6301.37	3434.57	-2644.47	2776.40	1625729.16	333403.30	39°24'28.128"N	80°49'28.617"W	3834.27	133.606	1.17	0.13	1.16
9887.00	90.650	159.970	6300.57	3524.56	-2728.74	2807.99	1625760.75	333319.03	39°24'27.300"N	80°49'28.199"W	3915.46	134.180	1.20	0.31	1.16
9976.00	90.250	162.370	6299.87	3613.53	-2812.97	2836.71	1625789.47	333234.81	39°24'26.471"N	80°49'27.817"W	3994.96	134.759	2.73	-0.45	2.70
10066.00	90.580	162.570	6299.22	3703.45	-2898.78	2863.82	1625816.58	333148.99	39°24'25.627"N	80°49'27.456"W	4074.85	135.348	0.43	0.37	0.22
10156.00	90.430	162.730	6298.42	3793.35	-2984.68	2890.65	1625843.42	333063.10	39°24'24.782"N	80°49'27.098"W	4155.02	135.917	0.24	-0.17	0.18
10245.00	90.280	162.220	6297.87	3882.26	-3069.55	2917.45	1625870.21	332978.24	39°24'23.947"N	80°49'26.740"W	4234.82	136.455	0.60	-0.17	-0.57
10335.00	90.370	164.850	6297.36	3972.08	-3155.85	2942.96	1625895.72	332891.94	39°24'23.098"N	80°49'26.399"W	4315.14	136.999	2.92	0.10	2.92
10424.00	90.120	164.470	6296.98	4060.79	-3241.68	2966.50	1625919.26	332806.12	39°24'22.254"N	80°49'26.083"W	4394.16	137.538	0.51	-0.28	-0.43
10514.00	90.030	160.360	6296.86	4150.69	-3327.46	2993.69	1625946.45	332720.34	39°24'21.410"N	80°49'25.721"W	4475.95	138.023	4.57	-0.10	-4.57
10603.00	90.150	157.480	6296.72	4239.66	-3410.49	3025.70	1625978.45	332637.31	39°24'20.594"N	80°49'25.297"W	4559.20	138.421	3.24	0.13	-3.24
10693.00	90.120	156.640	6296.51	4329.54	-3493.37	3060.77	1626013.53	332554.44	39°24'19.780"N	80°49'24.835"W	4644.57	138.776	0.93	-0.03	-0.93
10783.00	89.910	153.140	6296.49	4419.17	-3574.85	3098.96	1626051.71	332472.96	39°24'18.980"N	80°49'24.333"W	4731.08	139.079	3.90	-0.23	-3.89
10872.00	89.750	149.330	6296.75	4507.12	-3652.86	3141.78	1626094.53	332394.96	39°24'18.216"N	80°49'23.773"W	4818.11	139.302	4.28	-0.18	-4.28
10962.00	89.690	150.070	6297.19	4595.66	-3730.56	3187.19	1626139.93	332317.26	39°24'17.454"N	80°49'23.180"W	4906.65	139.491	0.82	-0.07	0.82
11051.00	89.600	153.060	6297.74	4683.69	-3808.81	3229.56	1626182.30	332239.01	39°24'16.687"N	80°49'22.626"W	4993.71	139.705	3.36	-0.10	3.36
11141.00	89.850	163.380	6298.18	4773.52	-3892.28	3262.91	1626215.65	332155.56	39°24'15.867"N	80°49'22.185"W	5079.01	140.027	11.47	0.28	11.47
11230.00	89.780	164.760	6298.46	4862.30	-3977.86	3287.34	1626240.08	332069.98	39°24'15.025"N	80°49'21.858"W	5160.42	140.429	1.55	-0.08	1.55
11320.00	89.600	164.710	6298.98	4951.99	-4064.68	3311.03	1626263.77	331983.16	39°24'14.171"N	80°49'21.540"W	5242.57	140.834	0.21	-0.20	-0.06
11409.00	90.220	164.740	6299.46	5041.68	-4150.53	3334.48	1626287.22	331897.31	39°24'13.325"N	80°49'21.225"W	5324.07	141.222	0.70	0.70	0.03
11499.00	89.600	166.550	6299.68	5131.24	-4237.72	3356.79	1626309.53	331810.13	39°24'12.467"N	80°49'20.925"W	5406.14	141.616	2.13	-0.69	2.01
11589.00	90.090	166.300	6299.68	5220.41	-4325.20	3377.91	1626330.65	331722.65	39°24'11.606"N	80°49'20.639"W	5487.96	142.011	0.61	0.54	-0.28
11680.00	89.570	161.900	6299.55	5309.63	-4412.70	3402.84	1626355.57	331635.16	39°24'10.745"N	80°49'20.305"W	5572.36	142.363	4.87	-0.57	-4.84
11768.00	89.750	159.380	6299.27	5398.88	-4495.72	3432.01	1626384.74	331552.15	39°24'09.928"N	80°49'19.918"W	5655.98	142.642	2.87	0.20	-2.86
11858.00	89.780	161.110	6298.88	5488.06	-4580.42	3462.43	1626415.16	331467.45	39°24'09.096"N	80°49'19.515"W	5741.83	142.914	1.92	0.03	1.92
11947.00	89.780	161.530	6300.98	5577.38	-4664.73	3490.93	1626443.66	331383.15	39°24'08.267"N	80°49'19.136"W	5826.34	143.190	0.47	0.00	0.47
12037.00	89.780	160.680	6301.32	5667.36	-4749.88	3520.08	1626472.80	331298.00	39°24'07.429"N	80°49'18.749"W	5912.04	143.458	0.94	0.00	-0.94
12126.00	89.970	160.380	6301.52	5756.36	-4833.79	3549.74	1626502.47	331214.10	39°24'06.605"N	80°49'18.355"W	5997.18	143.708	0.40	0.21	-0.34
12216.00	89.510	160.100	6301.93	5846.35	-4918.49	3580.17	1626532.89	331129.40	39°24'05.772"N	80°49'17.952"W	6083.51	143.949	0.60	-0.51	-0.31
12305.00	89.940	158.610	6302.35	5935.34	-5001.77	3611.55	1626564.27	331046.13	39°24'04.953"N	80°49'17.537"W	6169.35	144.169	1.74	0.48	-1.67

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Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'
Page 7 of 10



REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (193 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]
12395.00	89.720	158.360	6302.62	6025.31	-5085.50	3644.55	1626597.27	330962.40	39°24'04.131"N	80°49'17.100"W	6256.60	144.372	0.37	-0.24	-0.28
12485.00	89.880	157.270	6302.94	6115.25	-5168.83	3678.54	1626631.25	330879.07	39°24'03.312"N	80°49'16.652"W	6344.17	144.561	1.22	0.18	-1.21
12574.00	89.880	157.360	6303.12	6204.15	-5250.95	3712.86	1626665.58	330796.96	39°24'02.506"N	80°49'16.199"W	6431.00	144.736	0.10	0.00	0.10
12664.00	89.540	155.230	6303.58	6293.95	-5333.35	3749.04	1626701.76	330714.56	39°24'01.697"N	80°49'15.723"W	6519.19	144.895	2.40	-0.38	-2.37
12754.00	90.000	157.470	6303.94	6383.76	-5415.78	3785.14	1626737.85	330632.13	39°24'00.887"N	80°49'15.248"W	6607.42	145.050	2.54	0.51	2.49
12843.00	90.550	160.490	6303.51	6472.74	-5498.85	3817.06	1626769.77	330549.07	39°24'00.071"N	80°49'14.826"W	6693.82	145.233	3.45	0.62	3.39
12933.00	90.680	160.420	6302.55	6562.73	-5583.66	3847.17	1626799.88	330464.27	39°23'59.237"N	80°49'14.426"W	6780.70	145.433	0.16	0.14	-0.08
13022.00	90.120	161.550	6301.92	6651.71	-5667.80	3876.16	1626828.87	330380.13	39°23'58.410"N	80°49'14.041"W	6866.48	145.632	1.42	-0.63	1.27
13112.00	90.150	161.990	6301.71	6741.67	-5753.28	3904.32	1626857.03	330294.65	39°23'57.569"N	80°49'13.667"W	6952.98	145.838	0.49	0.03	0.49
13202.00	89.940	163.880	6301.64	6831.55	-5839.31	3930.73	1626883.43	330208.63	39°23'56.723"N	80°49'13.314"W	7039.05	146.054	2.11	-0.23	2.10
13291.00	89.910	164.950	6301.76	6920.28	-5925.04	3954.64	1626907.34	330122.90	39°23'55.879"N	80°49'12.994"W	7123.57	146.279	1.20	-0.03	1.20
13381.00	90.180	165.620	6301.69	7009.90	-6012.09	3977.50	1626930.20	330035.86	39°23'55.022"N	80°49'12.686"W	7208.72	146.512	0.80	0.30	0.74
13470.00	90.220	162.560	6301.38	7098.66	-6097.67	4001.89	1626954.60	329950.29	39°23'54.180"N	80°49'12.359"W	7293.61	146.723	3.44	0.04	-3.44
13560.00	89.850	161.230	6301.32	7188.61	-6183.21	4029.86	1626982.56	329864.75	39°23'53.339"N	80°49'11.987"W	7380.50	146.906	1.53	-0.41	-1.48
13649.00	90.280	161.440	6301.22	7277.58	-6267.53	4058.34	1627011.04	329780.43	39°23'52.510"N	80°49'11.609"W	7466.73	147.076	0.54	0.48	0.24
13739.00	89.260	162.150	6301.58	7367.54	-6353.02	4086.46	1627039.16	329694.95	39°23'51.669"N	80°49'11.234"W	7553.81	147.250	1.38	-1.13	0.79
13828.00	89.420	160.970	6302.61	7456.50	-6437.44	4114.61	1627067.31	329610.53	39°23'50.839"N	80°49'10.860"W	7640.07	147.415	1.34	0.18	-1.33
13918.00	90.280	159.770	6302.84	7546.49	-6522.21	4144.85	1627097.54	329525.77	39°23'50.005"N	80°49'10.459"W	7727.80	147.564	1.64	0.96	-1.33
14008.00	91.230	158.230	6301.66	7636.47	-6606.22	4177.09	1627129.79	329441.76	39°23'49.180"N	80°49'10.033"W	7816.03	147.695	2.01	1.06	-1.71
14097.00	91.170	156.330	6301.79	7725.34	-6688.29	4211.46	1627164.15	329359.69	39°23'48.374"N	80°49'09.580"W	7903.77	147.802	2.14	-0.07	-2.13
14187.00	90.710	155.650	6301.32	7815.11	-6770.49	4248.07	1627200.76	329277.49	39°23'47.567"N	80°49'09.098"W	7992.85	147.894	0.91	-0.51	-0.76
14276.00	90.090	155.730	6301.77	7908.86	-6851.60	4284.71	1627237.40	329196.39	39°23'46.770"N	80°49'08.616"W	8081.04	147.980	0.70	-0.70	0.09
14366.00	90.400	156.030	6301.97	7997.62	-6933.74	4321.49	1627274.17	329114.26	39°23'45.964"N	80°49'08.132"W	8170.19	148.067	0.48	0.34	0.33
14455.00	90.180	157.110	6301.24	8086.46	-7015.41	4356.85	1627309.53	329032.59	39°23'45.162"N	80°49'07.667"W	8258.22	148.158	1.28	-0.25	1.26
14545.00	89.850	158.230	6301.44	8175.39	-7098.69	4390.99	1627343.67	328949.32	39°23'44.344"N	80°49'07.216"W	8346.98	148.261	1.30	-0.37	1.24
14635.00	89.880	159.230	6301.55	8264.37	-7182.57	4423.60	1627376.28	328865.45	39°23'43.520"N	80°49'06.785"W	8435.49	148.372	1.07	0.03	1.07
14724.00	90.220	160.150	6301.97	8353.36	-7266.36	4453.58	1627406.26	328781.66	39°23'42.696"N	80°49'06.388"W	8522.58	148.496	2.47	0.38	2.44
14814.00	90.400	160.790	6296.44	8441.32	-7351.75	4482.00	1627434.67	328696.27	39°23'41.856"N	80°49'06.010"W	8610.26	148.631	0.48	0.20	0.43
14904.00	90.220	160.740	6296.00	8531.30	-7436.98	4510.90	1627463.58	328611.04	39°23'41.018"N	80°49'05.626"W	8698.10	148.761	1.18	-0.20	-1.17
14993.00	90.460	161.330	6295.47	8620.28	-7521.15	4539.83	1627492.50	328526.88	39°23'40.191"N	80°49'05.242"W	8785.09	148.884	0.72	0.27	0.66

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Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'
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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (193 stations)

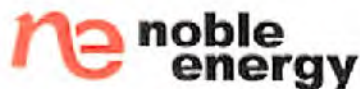
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
15083.00	90.520	161.750	6294.70	8710.25	-7606.52	4568.32	1627521.00	328441.52	39°23'39.351"N	80°49'04.863"W	8872.92	149.012	0.47	0.07	0.47
15173.00	89.660	159.280	6294.56	8800.23	-7691.35	4598.34	1627551.01	328356.69	39°23'38.517"N	80°49'04.465"W	8961.12	149.127	2.91	-0.96	-2.74
15262.00	89.880	159.050	6294.91	8889.22	-7774.53	4630.00	1627582.66	328273.51	39°23'37.700"N	80°49'04.046"W	9048.77	149.225	0.36	0.25	-0.26
15352.00	89.600	159.710	6295.32	8979.22	-7858.77	4661.69	1627614.36	328189.28	39°23'36.872"N	80°49'03.627"W	9137.37	149.324	0.80	-0.31	0.73
15441.00	89.720	161.400	6295.85	9068.21	-7942.69	4691.32	1627643.98	328105.37	39°23'36.047"N	80°49'03.234"W	9224.68	149.432	1.90	0.13	1.90
15531.00	89.940	162.540	6296.12	9158.15	-8028.26	4719.17	1627671.84	328019.79	39°23'35.205"N	80°49'02.863"W	9312.55	149.552	1.29	0.24	1.27
15620.00	89.850	164.280	6296.28	9246.99	-8113.56	4744.58	1627697.25	327934.51	39°23'34.366"N	80°49'02.523"W	9398.98	149.682	1.96	-0.10	1.96
15710.00	90.180	163.270	6296.26	9336.80	-8199.97	4769.73	1627722.39	327848.10	39°23'33.515"N	80°49'02.187"W	9486.30	149.814	1.18	0.37	-1.12
15799.00	89.690	164.030	6296.36	9425.61	-8285.37	4794.78	1627747.44	327762.70	39°23'32.675"N	80°49'01.852"W	9572.74	149.942	1.02	-0.55	0.85
15889.00	89.970	165.340	6296.63	9515.31	-8372.17	4818.56	1627771.21	327675.90	39°23'31.821"N	80°49'01.533"W	9659.80	150.078	1.49	0.31	1.46
15979.00	90.340	163.860	6296.38	9605.02	-8458.94	4842.45	1627795.11	327589.14	39°23'30.967"N	80°49'01.212"W	9746.95	150.210	1.70	0.41	-1.64
16068.00	90.370	160.840	6295.83	9693.93	-8543.74	4869.44	1627822.09	327504.35	39°23'30.133"N	80°49'00.853"W	9833.96	150.319	3.39	0.03	-3.39
16092.00	90.370	160.840	6295.68	9717.93	-8566.41	4877.31	1627829.97	327481.68	39°23'29.910"N	80°49'00.748"W	9857.56	150.345	0.00	0.00	0.00

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Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'

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47-095-02209

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot II
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-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-40H-HS BHL Rev-2		6284.37	-8556.22	4909.38	1627862.03	327491.87	39°23'30.015"N	80°49'00.342"W	point
SHR-40H-HS LP Plat		6294.90	-192.95	1865.40	1624818.22	335854.68	39°24'52.222"N	80°49'40.683"W	point
SHR-40H-HS LP Rev-2		6300.00	-143.16	1847.28	1624800.10	335904.47	39°24'52.711"N	80°49'40.924"W	point
SHR-40 Pad LL		6599.25	-5.16	-30.33	1622922.59	336042.46	39°24'53.800"N	80°50'04.870"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: SHR-40H-HS AWB Ref Wellpath: SHR-40H-HS AWP Proj: 16092'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.40	2839.00	Generic gyro - northseeking (Standard)	01_MS Gyro <8-3/4"> (100'-2835')	SHR-40H-HS AWB
2839.00	6028.00	ISCWSA MWD, Rev. 2 (Standard)	02_SDI EM <8-3/4"> (2835')(2843'-6024')	SHR-40H-HS AWB
6028.00	16068.00	NaviTrak 1AT Curve Short Spaced)	03_BHL AT Curve <8-1/2"> (6028')(6083'-16068')	SHR-40H-HS AWB
16068.00	16092.00	Blind Drilling (std)	Projection to bit	SHR-40H-HS AWB

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47-095-02210f



Actual Wellpath Report

SHR-40H-IIS AWP Proj: 16092'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot II
Area	Tyler County, WV	Well	SHR-40H-IIS
Field	Tyler	Wellbore	SHR-40H-IIS AWB
Facility	SHR-40 Pad		

COMMENTS

Wellpath general comments

API: 47-095-02210-0000
 BHI Job #: 7314494
 Rig: Precision 542
 Duration: 6/23/2015-6/27/2015
 MS Gyro <8-3/4"> (100'-2835')
 SDI EM <8-3/4"> (2835')(2843'-6024')
 BHI AT Curve <8-1/2"> (6028')(6083'-16068')
 Projected MD at TD: 16092'

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PLUGGING PERMIT CHECKLIST

Plugging Permit

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- WW-4B
- WW-4B signed by inspector
- WW-4A

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

- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

09/10/2021



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

Plugging H6A Horizontal Well Work Permit (API: 47-095-02210)

1 message

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

Wed, Sep 8, 2021 at 2:32 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, “**SHR 40 HHS**”, API: (**47-095-02210**). 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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