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west virginia department of environmental protection

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

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

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 SHR 40 EHS  
47-095-02213-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

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

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

A blue ink signature of James A. Martin.

James A. Martin  
Chief

Operator's Well Number: SIIR 40 EHS  
Farm Name: NOBLE ENERGY, INC.  
U.S. WELL NUMBER: 47-095-02213-00-00  
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

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

1) Date 8-16, 2021  
2) Operator's  
Well No. SHRL-40E-HS  
3) APT Well No. 47-095 - 02213

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 **RECEIVED** follows:  
**Office of Oil and Gas**  
**AUG 20 2021**  
**WV Department of Environmental Protection**  
See attached

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

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

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

09/10/2021

## SHR 3/40 Procedure

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

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

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

DMAH 8/17/21

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<b>CNX GAS, LLC</b>	47-095-02213P
<b>Well Bore Diagram</b>	
<b>SHRL-40E-HS</b>	

State: West Virginia  
 County: Tyler  
 Field: Shirley

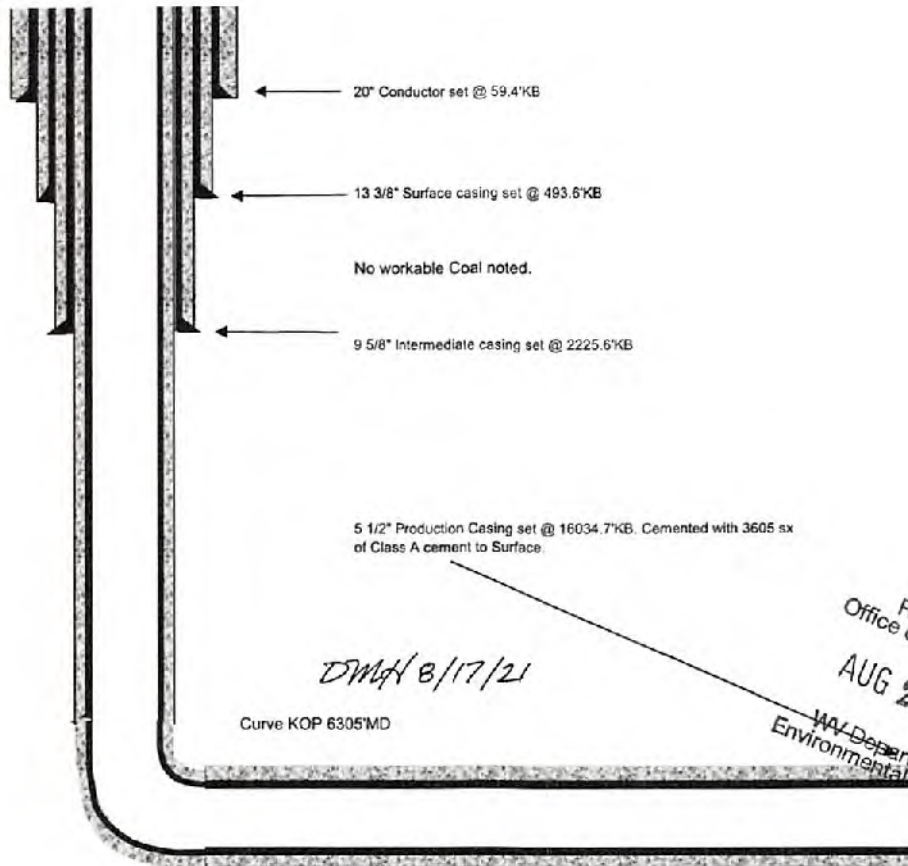
API #: 47-095-02213-00  
 Lease #: \_\_\_\_\_  
 Permit #: \_\_\_\_\_

Current Completion: Burket  
 TD MD / TVD: 16046 6302  
 Cased Hole Depth 16034.7 MD  
 Elevations 771 GL 19.4 KB  
 KOP: 6305 MD 5740 TVD  
 ETOC: Surface 3605 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:	2225.6	Grade and Weight:	P110 20# BTC	Hole Size:	8.5"
Production	5 1/2"	Depth Set:	16034.7	Grade and Weight:	_____		
Tubing:	_____	Depth Set:	_____	Grade and Weight:	_____		



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 WV Department of  
 Environmental Protection

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

API 47-095-02213 County Tyler District Centerville  
 Quad Shirley Pad Name SHR 40 Field/Pool Name NA  
 Farm name Noble Energy, Inc. Well Number SHR 40 EHS  
 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 4362833.07 Easting 514245.49  
 Landing Point of Curve Northing 4362889.34 Easting 515038.24  
 Bottom Hole Northing 4360453.82 Easting 515971.01

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 03/25/2015 Date drilling ceased 05/23/2015  
 Date completion activities began NA Date completion activities ceased NA  
 Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by WV Department of Environmental Protection

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Office of Oil and Gas  
05/23/2015  
AUG 20 2021

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 47-095-02213 Farm name Noble Energy, Inc. Well number SHR 40 EHS

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	2225.6	N	HCK-55 36#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4	5 1/2	16,034.7	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	420	15.6	1.20	69.5	0	8
Coal							
Intermediate 1	Class A	898	15.6	1.18	168.0	0	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead 1110 Tail 2495	Lead 15.0 Tail 15.4	Lead 1.26 Tail 1.22	Lead 249.8 Tail 544.0	4000.0	8
Tubing							

Drillers TD (ft) 16,046 Loggers TD (ft) 16,023  
 Deepest formation penetrated Marcellus Plug back to (ft) Not a Pilot Hole  
 Plug back procedure Not a Pilot Hole

Kick off depth (ft) 5,676

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

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Conductor - No centralizers used, Fresh Water/Surface-  
Surface - 4 centralizers used, one every third joint. Intermediate - 26 centralizers - bow spring centralizers on every joint to KOP, on every third joint from KOP to 100' from surface.  
Production - 271 cortex 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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 WV Department of  
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API 47-095 - 02213 Farm name Noble Energy, Inc. Well number SHR 40 EHS

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.

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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 Complete	No Data	Available					

WV Department of Environmental Protection

09/10/2021

Please insert additional pages as applicable.

09/10/2021



WR-35  
Rev. 8/23/13

API 47-095-02213

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 \_\_\_\_\_ mcipd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

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AUG 20 2021

WV Department of  
Environmental Protection

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

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

SHR 40 EHS 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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Environmental Protection

09/10/2021

Well is located on topo map 647 feet south of Latitude: 39° 25' 00"



FILE # SHR 40 EHS

DRAWING # SHR 40 EHS

SCALE: 1"=2500'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: USGS MONUMENT A 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 David Davidson

R.P.E.: L.L.S., P.S. NO. 819



(+) 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

SURFACE OWNER: NOBLE ENERGY, INC ACREAGE: 572.84

OIL & GAS ROYALTY OWNER: DAVID L. MAPLE, ET AL. ACREAGE: 357.43

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

TARGET FORMATION: BURRETT ESTIMATED DEPTH: TVD 6,295' ± TMD 16,010' ±

WELL OPERATOR: NOBLE ENERGY, INC. DESIGNATED AGENT: STEVEN M. GREEN

Address: 333 TECHNOLOGY DRIVE SUITE 116 Address: 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590

City: CANONSBURG State: PA Zip Code: 15317 City: CHARLESTON State: WV Zip Code: 25304

DATE: AUGUST 18, 2014 REV: SEPTEMBER 30, 2014

OPERATOR'S WELL # SHR 40 EHS

API WELL # 47 095

STAT. Office of Oil and Gas

RECEIVED AUG 20 2021 WV Department of Environmental Protection

Well is located on topo map 333 feet west of Longitude: 80° 50' 00"

09/10/2021

47-095-02213P

1) Date: 8-16-2021  
 2) Operator's Well Number  
 SHRL-40E-HS  
 3) API Well No.: 47 - 095 - 02213

**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>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>
<p>6) Inspector</p> <p>Address <u>Derek Haught</u>  <u>PO box 85</u>  <u>Smithville WV 26178</u></p> <p>Telephone <u>304-206-7613</u></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 **WV Department of Environmental Protection** 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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Office of Oil and Gas  
AUG 20 2021

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 18<sup>TH</sup> day of August, 2021  
Vicki L. Smith Notary  
 My Commission Expires 6/19/22

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

**Oil and Gas Privacy Notice**

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

09/10/2021

47-095-02213P

7019 1120 0001 5856 2969

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**Canonsburg, PA 15317**

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Certified Mail Fee	\$3.60
\$	\$0.00
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
Postage	\$1.20
\$	\$4.80
Total F	\$4.80
\$	
Sent To	CNX Gas Company LLC
Street	1000 Consol Energy Dr.
City, S	Canonsburg, PA 15317

PS Form 3800, April 2015 (with amendments) Instructions



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AUG 20 2021  
WV Department of  
Environmental Protection

09/10/2021

WW-9  
(5/16)

47-095-02213P

API Number 47 - 095 - 02213  
Operator's Well No. SHRL-40E-HS

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

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) Middle Island Creek Quadrangle Shirley

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

*DMAH 8/17/21*

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

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

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

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

Additives to be used in drilling medium? na

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

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

-Landfill or offsite name/permit number? na

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Office of Oil and Gas

AUG 20 2021

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 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*

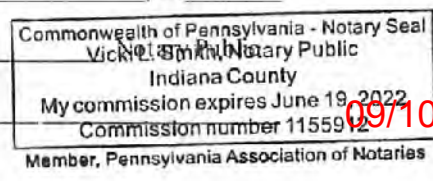
Company Official (Typed Name) Raymond Hoon

Company Official Title Senior Project Manager

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

*Vicki L. Smith*

My commission expires 6/19/22



09/10/2021

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

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

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

**Seed Mixtures**

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

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Derek M. Haught

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

RECEIVED  
Office of Oil and Gas

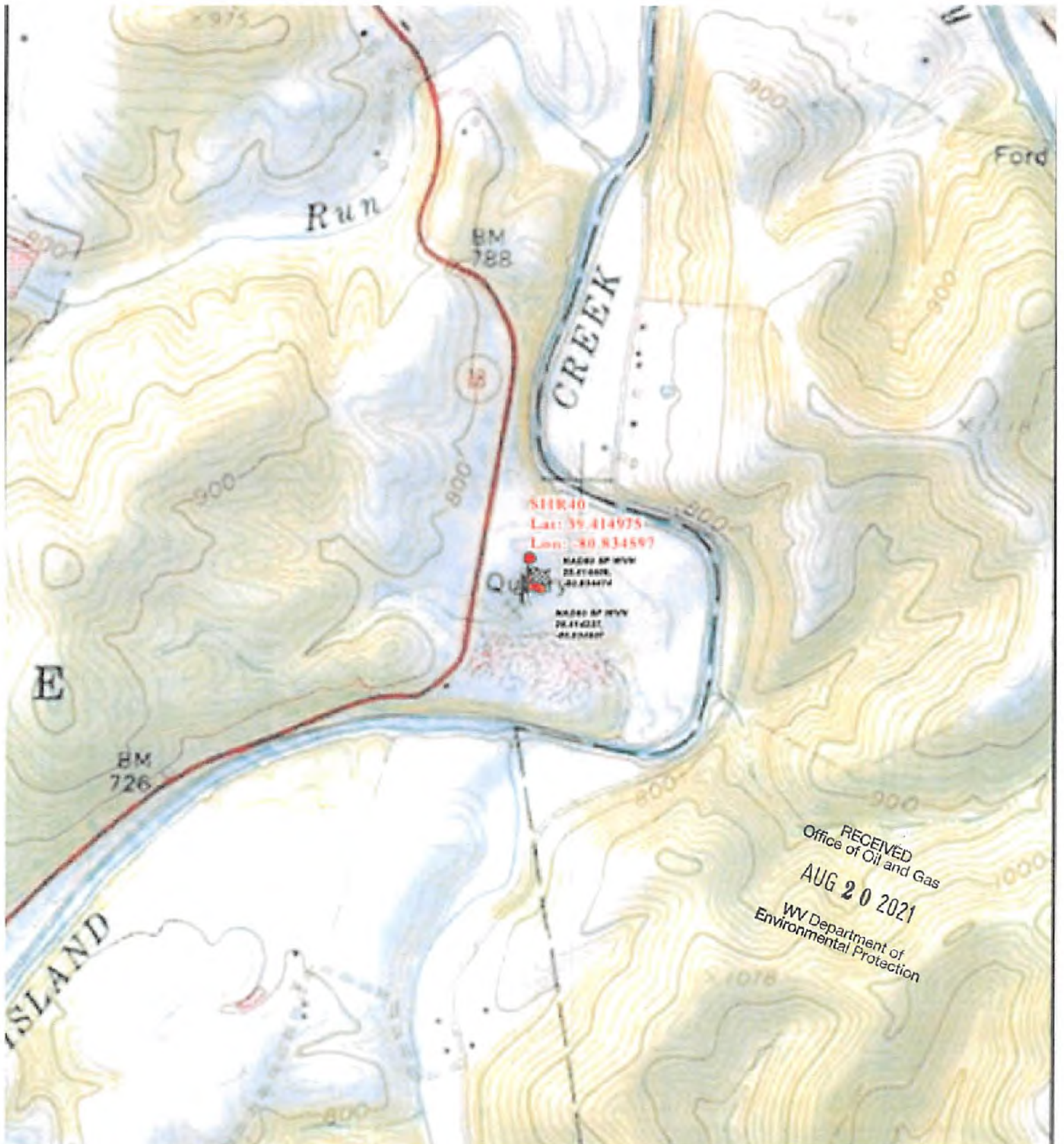
AUG 20 2021

WV Department of  
Environmental Protection

Title: Oil & Gas Inspector

Date: 8/17/21

Field Reviewed? ( X ) Yes ( ) No



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



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 4709502213 WELL NO.: SHRL-40E-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: 4362833.065

UTM GPS EASTING: 514245.494 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, 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]  
Signature

Project Manager  
Title

8-18-21  
Date

11/10/2016

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

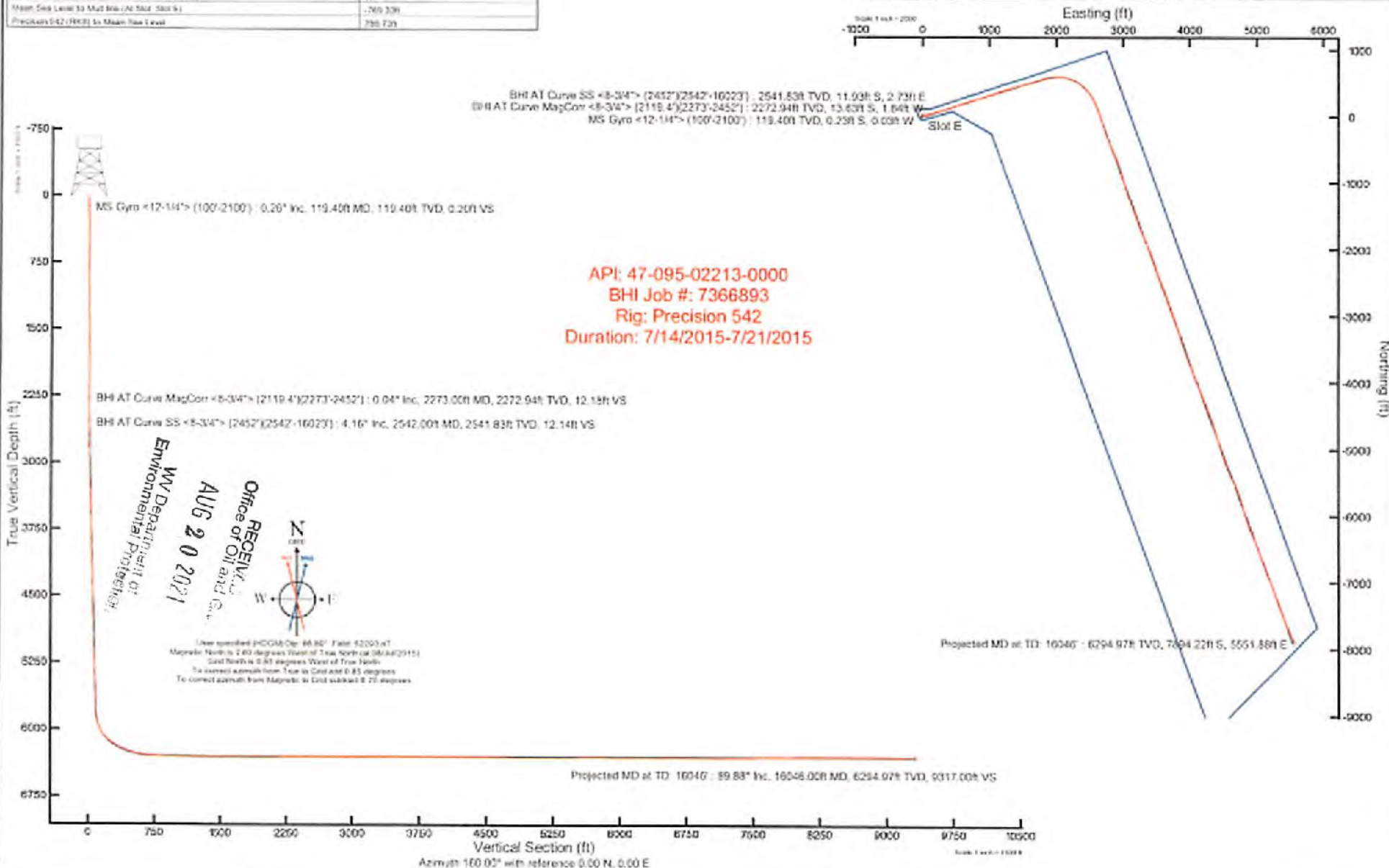
Location: Tyler County, WV  
 Field: Tyler  
 Facility: SHR-40 Pad

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

Location Information

Entity Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude
SHR-40 Pad	162237.589	336542.458	37°24'53.8007"N	82°52'04.6707"W
Slot	Local N (ft)	Local E (ft)	Grid East (US Ft)	Grid North (US Ft)
Slot E	-15.77	-1.28	162221.810	336546.690
Precision 542 (RIG) to Mud line (At Slot, Slot E)	19.40'			
Mean Sea Level to Mud line (At Slot, Slot E)	-769.33'			
Precision 542 (RIG) to Mean Sea Level	788.73'			

The survey system is NAD 83 US FWS Zone 18	Well System: NEDD (Lumber Wood Village HP Bottom Hole) 10' bit
The vertical depth is referenced to Precision 542 (RIG)	North Reference: Gridwork
Measured depth was referenced to Precision 542 (RIG)	Scale: True distance
Precision 542 (RIG) to Mean Sea Level: 788.73 feet	Charts are a feet
Mean Sea Level to Slot (At Slot, Slot E) : -169.33 feet	Created by: geoserver on 7/21/2015
Coordinates are in feet referenced to Slot	



47-095-02213F



# Actual Wellpath Report

SHR-40E-HS AWP Proj: 16046'  
Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot E
Area	Tyler County, WV	Well	SHR-40E-HS
Field	Tyler	Wellbore	SHR-40E-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	0.999948	Report Generated	22/Jul/2015 at 20:44
Convergence at slot	0.85° West	Database/Source file	WellArchitectEasternDB/SHR-40E-HS_AWB.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-45.77	-1.28	1622921.31	335996.69	39°24'53.347"N	80°50'04.878"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	788.73ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	788.73ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot E)	19.40ft
MD Reference Pt	Precision 542 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference Pt	Mean Sea Level	Section Azimuth	160.00°

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# Actual Wellpath Report

SHR-40E-IIS AWP Proj: 16046'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (179 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	187.340	0.00	0.00	0.00	0.00	1622921.31	335996.69	39°24'53.347"N	80°50'04.878"W	0.00	0.000	0.00	0.00	0.00
19.40	0.000	187.340	19.40	0.00	0.00	0.00	1622921.31	335996.69	39°24'53.347"N	80°50'04.878"W	0.00	0.000	0.00	0.00	0.00
119.40	0.260	187.340	119.40	0.20	-0.23	-0.05	1622921.28	335996.46	39°24'53.345"N	80°50'04.878"W	0.23	187.340	0.26	0.26	0.00
219.40	0.540	180.950	219.40	0.84	-0.92	-0.07	1622921.24	335995.77	39°24'53.338"N	80°50'04.878"W	0.92	184.085	0.28	0.28	-6.39
319.40	0.540	164.610	319.39	1.75	-1.85	0.05	1622921.36	335994.84	39°24'53.329"N	80°50'04.877"W	1.85	178.404	0.15	0.00	-16.34
419.40	0.390	163.340	419.39	2.56	-2.63	0.27	1622921.58	335994.06	39°24'53.322"N	80°50'04.874"W	2.64	174.044	0.15	-0.15	-1.27
519.40	0.350	159.680	519.39	3.21	-3.24	0.48	1622921.79	335993.45	39°24'53.316"N	80°50'04.871"W	3.27	171.611	0.05	-0.04	-3.66
619.40	0.150	201.110	619.39	3.61	-3.65	0.54	1622921.85	335993.04	39°24'53.312"N	80°50'04.870"W	3.69	171.632	0.26	-0.20	-41.43
719.40	0.390	238.020	719.39	3.78	-3.95	0.20	1622921.51	335992.74	39°24'53.308"N	80°50'04.874"W	3.96	177.090	0.28	0.24	36.91
819.40	0.470	214.010	819.38	4.09	-4.47	-0.32	1622920.99	335992.22	39°24'53.303"N	80°50'04.881"W	4.48	184.059	0.20	0.08	-24.01
919.40	0.620	185.300	919.38	4.82	-5.35	-0.60	1622920.71	335991.34	39°24'53.295"N	80°50'04.884"W	5.38	186.364	0.31	0.15	-28.71
1019.40	0.680	161.940	1019.37	5.90	-6.45	-0.46	1622920.85	335990.24	39°24'53.284"N	80°50'04.882"W	6.47	184.102	0.27	0.06	-23.36
1119.40	0.520	169.260	1119.37	6.95	-7.46	-0.19	1622921.12	335989.23	39°24'53.274"N	80°50'04.879"W	7.46	181.490	0.18	-0.16	7.32
1219.40	0.310	146.050	1219.36	7.66	-8.13	0.04	1622921.35	335988.56	39°24'53.267"N	80°50'04.876"W	8.13	179.708	0.26	-0.21	-23.21
1319.40	0.380	232.760	1319.36	8.02	-8.56	-0.07	1622921.24	335988.13	39°24'53.263"N	80°50'04.877"W	8.56	180.478	0.48	0.07	86.71
1419.40	0.500	237.680	1419.36	8.21	-8.99	-0.70	1622920.61	335987.70	39°24'53.259"N	80°50'04.885"W	9.02	184.478	0.13	0.12	4.92
1519.40	0.570	201.660	1519.36	8.67	-9.69	-1.26	1622920.05	335987.00	39°24'53.252"N	80°50'04.892"W	9.77	187.390	0.34	0.07	-36.02
1619.40	0.560	167.990	1619.35	9.53	-10.63	-1.34	1622919.97	335986.06	39°24'53.242"N	80°50'04.893"W	10.71	187.178	0.33	-0.01	-33.67
1719.40	0.410	149.320	1719.35	10.36	-11.41	-1.05	1622920.26	335985.28	39°24'53.235"N	80°50'04.889"W	11.46	185.277	0.22	-0.15	-18.67
1819.40	0.180	150.070	1819.35	10.87	-11.86	-0.79	1622920.52	335984.83	39°24'53.230"N	80°50'04.885"W	11.88	183.827	0.23	-0.23	0.75
1919.40	0.050	310.490	1919.35	10.99	-11.96	-0.75	1622920.56	335984.73	39°24'53.229"N	80°50'04.885"W	11.99	183.577	0.23	-0.13	160.42
2019.40	0.330	239.490	2019.35	11.00	-11.98	-1.03	1622920.28	335984.61	39°24'53.228"N	80°50'04.888"W	12.13	184.869	0.32	0.28	-71.00
2119.40	0.660	202.610	2119.34	11.00	-11.76	-1.50	1622919.81	335983.93	39°24'53.221"N	80°50'04.894"W	12.85	186.699	0.44	0.33	-36.88
2273.00	0.040	178.220	2272.94	12.00	-11.84	-1.84	1622919.47	335983.06	39°24'53.213"N	80°50'04.898"W	13.75	187.677	0.41	-0.40	-15.88
2362.00	0.040	26.630	2361.94	12.00	-11.82	-1.82	1622919.49	335983.06	39°24'53.212"N	80°50'04.898"W	13.76	187.613	0.09	0.00	-170.33
2452.00	1.030	80.910	2451.93	12.00	-1.01	-1.01	1622920.30	335983.21	39°24'53.214"N	80°50'04.888"W	13.52	184.284	1.12	1.10	60.31
2542.00	4.160	64.200	2541.83	12.10	-2.73	2.73	1622924.04	335984.76	39°24'53.230"N	80°50'04.841"W	12.24	167.114	3.54	3.48	-18.57
2631.00	7.090	58.930	2630.39	10.70	-10.34	10.34	1622931.65	335989.00	39°24'53.273"N	80°50'04.744"W	12.89	126.629	3.34	3.29	-5.92
2721.00	8.730	68.290	2719.54	9.49	-10.00	21.45	1622942.75	335994.39	39°24'53.328"N	80°50'04.604"W	21.57	96.109	2.31	1.82	10.40
2811.00	12.930	74.800	2807.92	10.13	2.87	37.52	1622958.82	335999.56	39°24'53.381"N	80°50'04.400"W	37.63	85.620	4.85	4.67	7.23

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# Actual Wellpath Report

SHR-40E-HS AWP Proj: 16046'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (179 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Seet [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]
2900.00	17.130	73.110	2893.85	11.68	9.30	59.68	1622980.98	336005.99	39°24'53.448"N	80°50'04.119"W	60.40	81.147	4.74	4.72	-1.90
2990.00	20.630	70.710	2979.00	12.59	18.39	87.33	1623008.64	336015.08	39°24'53.542"N	80°50'03.768"W	89.25	78.111	3.98	3.89	-2.67
3079.00	24.940	70.740	3061.04	13.03	29.76	119.86	1623041.16	336026.45	39°24'53.659"N	80°50'03.356"W	123.50	76.056	4.84	4.84	0.03
3169.00	29.250	73.620	3141.14	14.66	42.23	158.89	1623080.19	336038.92	39°24'53.788"N	80°50'02.861"W	164.41	75.117	5.00	4.79	3.20
3259.00	32.220	76.570	3218.50	18.80	54.00	203.33	1623124.63	336050.69	39°24'53.911"N	80°50'02.297"W	210.38	75.126	3.70	3.30	3.28
3348.00	34.180	76.740	3292.97	24.45	65.25	250.75	1623172.05	336061.94	39°24'54.029"N	80°50'01.695"W	259.10	75.414	2.20	2.20	0.19
3438.00	33.930	75.130	3367.53	29.66	77.49	299.63	1623220.93	336074.18	39°24'54.157"N	80°50'01.075"W	309.49	75.499	1.04	-0.28	-1.79
3528.00	34.010	73.350	3442.17	33.38	91.15	348.03	1623269.32	336087.84	39°24'54.299"N	80°50'00.461"W	359.77	75.323	1.11	0.09	-1.98
3617.00	33.680	71.740	3516.09	35.58	106.02	395.31	1623316.60	336102.70	39°24'54.453"N	80°49'59.861"W	409.28	74.987	1.07	-0.37	-1.81
3707.00	34.160	71.170	3590.78	36.85	121.99	442.92	1623364.21	336118.68	39°24'54.618"N	80°49'59.258"W	459.42	74.601	0.64	0.53	-0.63
3797.00	34.180	69.790	3665.24	37.28	138.88	490.57	1623411.85	336135.56	39°24'54.792"N	80°49'58.654"W	509.85	74.193	0.86	0.02	-1.53
3886.00	33.780	69.930	3739.04	37.16	156.01	537.27	1623458.55	336152.69	39°24'54.968"N	80°49'58.062"W	559.46	73.808	0.46	-0.45	0.16
3976.00	32.650	70.480	3814.34	37.33	172.71	583.65	1623504.93	336169.39	39°24'55.140"N	80°49'57.475"W	608.67	73.516	1.30	-1.26	0.61
4066.00	32.990	72.350	3889.97	38.54	188.25	629.88	1623551.16	336184.93	39°24'55.300"N	80°49'56.889"W	657.41	73.361	1.19	0.38	2.08
4155.00	33.620	71.530	3964.36	40.19	203.40	676.34	1623597.62	336200.08	39°24'55.457"N	80°49'56.300"W	706.27	73.262	0.87	0.71	-0.92
4245.00	33.100	72.120	4039.53	41.76	218.84	723.36	1623644.63	336215.52	39°24'55.616"N	80°49'55.703"W	755.74	73.168	0.68	-0.58	0.66
4335.00	34.480	75.040	4114.33	44.91	232.96	771.37	1623692.64	336229.64	39°24'55.763"N	80°49'55.095"W	805.78	73.195	2.37	1.53	3.24
4424.00	34.160	75.340	4187.83	49.45	245.79	819.88	1623741.15	336242.47	39°24'55.897"N	80°49'54.479"W	855.93	73.312	0.41	-0.36	0.34
4513.00	34.740	73.990	4261.23	53.54	259.11	868.43	1623789.69	336255.78	39°24'56.035"N	80°49'53.863"W	906.26	73.387	1.08	0.65	-1.52
4603.00	34.320	70.910	4335.88	55.73	274.48	917.06	1623838.32	336271.16	39°24'56.195"N	80°49'53.246"W	957.26	73.337	2.00	-0.47	-3.42
4692.00	33.940	70.280	4409.58	56.25	291.07	964.16	1623885.42	336287.74	39°24'56.365"N	80°49'52.649"W	1007.14	73.201	0.58	-0.43	-0.71
4782.00	34.810	68.550	4483.53	57.70	308.96	1011.71	1623932.97	336305.64	39°24'56.549"N	80°49'52.047"W	1057.84	73.018	1.48	0.97	-1.98
4871.00	34.290	67.710	4557.63	59.04	327.77	1058.55	1623979.80	336324.44	39°24'56.742"N	80°49'51.454"W	1108.13	72.795	0.76	-0.58	-0.85
4961.00	34.930	71.350	4631.71	60.36	345.67	1106.41	1624027.66	336342.34	39°24'56.926"N	80°49'50.847"W	1159.15	72.650	2.31	0.71	3.88
5051.00	34.830	73.350	4705.55	61.69	361.28	1155.45	1624076.69	336357.95	39°24'57.087"N	80°49'50.226"W	1210.61	72.637	1.41	-0.11	2.46
5140.00	34.590	70.710	4777.72	62.96	376.85	1203.66	1624124.91	336373.52	39°24'57.248"N	80°49'49.614"W	1261.28	72.615	1.73	-0.27	-3.00
5230.00	34.840	72.090	4851.70	64.24	393.17	1252.25	1624173.49	336389.84	39°24'57.417"N	80°49'48.998"W	1312.52	72.569	0.88	0.28	1.47
5320.00	34.630	72.020	4925.66	65.52	408.97	1301.03	1624222.27	336405.64	39°24'57.580"N	80°49'48.380"W	1363.80	72.550	0.24	-0.23	-0.08
5409.00	34.570	71.950	4998.92	66.80	424.60	1349.10	1624270.33	336421.26	39°24'57.741"N	80°49'47.770"W	1414.33	72.530	0.08	-0.07	-0.08
5499.00	34.810	74.790	5072.92	68.08	439.25	1398.16	1624319.40	336435.92	39°24'57.893"N	80°49'47.148"W	1465.54	72.559	1.82	0.27	3.16

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (179 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]
5588.00	34.220	76.170	5146.26	70.25	451.90	1446.98	1624368.21	336448.56	39°24'58.025"N	80°49'46.529"W	1515.90	72.656	1.10	-0.66	1.55
5678.00	33.750	74.050	5220.89	74.74	464.82	1495.59	1624416.82	336461.48	39°24'58.160"N	80°49'45.912"W	1566.16	72.735	1.42	-0.52	-2.36
5767.00	34.220	76.410	5294.69	79.28	477.49	1543.69	1624464.92	336474.16	39°24'58.292"N	80°49'45.301"W	1615.85	72.812	1.57	0.53	2.65
5857.00	34.220	75.750	5369.11	84.64	489.67	1592.82	1624514.04	336486.33	39°24'58.420"N	80°49'44.678"W	1666.39	72.911	0.41	0.00	-0.73
5947.00	33.390	73.070	5443.90	88.50	503.11	1641.04	1624562.26	336499.77	39°24'58.560"N	80°49'44.066"W	1716.43	72.956	1.90	-0.92	-2.98
6036.00	33.900	72.980	5517.99	91.10	517.51	1688.20	1624609.42	336514.17	39°24'58.709"N	80°49'43.468"W	1765.74	72.957	0.58	0.57	-0.10
6126.00	34.140	72.020	5592.58	93.30	532.65	1736.22	1624657.44	336529.31	39°24'58.866"N	80°49'42.859"W	1816.09	72.945	0.65	0.27	-1.07
6215.00	34.060	71.800	5666.28	94.96	548.14	1783.65	1624704.87	336544.80	39°24'59.026"N	80°49'42.257"W	1865.98	72.917	0.17	-0.09	-0.25
6305.00	34.070	72.080	5740.84	96.67	563.77	1831.58	1624752.79	336560.43	39°24'59.187"N	80°49'41.650"W	1916.38	72.891	0.17	0.01	0.31
6394.00	34.520	75.900	5814.37	100.16	577.59	1879.77	1624800.97	336574.24	39°24'59.331"N	80°49'41.039"W	1966.50	72.920	2.47	0.51	4.29
6484.00	38.010	82.060	5886.95	108.58	587.63	1931.98	1624853.18	336588.29	39°24'59.438"N	80°49'40.375"W	2019.37	73.082	5.60	3.88	6.84
6574.00	45.550	85.870	5954.03	123.18	593.78	1991.56	1624912.76	336590.44	39°24'59.507"N	80°49'39.617"W	2078.19	73.398	8.84	8.38	4.23
6663.00	50.630	91.320	6013.48	144.40	595.28	2057.71	1624978.90	336591.94	39°24'59.532"N	80°49'38.775"W	2142.08	73.865	7.30	5.71	6.12
6753.00	56.560	104.160	6067.02	178.25	585.26	2129.15	1625050.35	336581.92	39°24'59.443"N	80°49'37.863"W	2208.12	74.630	13.22	6.59	14.27
6843.00	60.410	110.240	6114.08	224.66	562.51	2202.35	1625123.54	336559.17	39°24'59.229"N	80°49'36.926"W	2273.06	75.672	7.17	4.28	6.76
6933.00	63.910	117.070	6156.15	279.60	530.54	2275.15	1625196.33	336527.20	39°24'58.924"N	80°49'35.992"W	2336.19	76.874	7.75	3.89	7.59
7022.00	64.930	125.280	6194.63	342.08	489.01	2343.74	1625264.92	336485.68	39°24'58.523"N	80°49'35.111"W	2394.21	78.214	8.40	1.15	9.22
7112.00	70.090	131.540	6239.07	412.89	437.34	2408.78	1625329.96	336434.00	39°24'58.022"N	80°49'34.272"W	2448.16	79.710	8.61	5.73	6.98
7201.00	74.770	138.640	6285.96	489.29	377.26	2468.57	1625389.75	336373.93	39°24'57.437"N	80°49'33.499"W	2497.23	81.311	9.24	5.26	7.98
7291.00	78.600	147.790	6335.73	577.64	307.18	2520.90	1625442.07	336303.85	39°24'56.752"N	80°49'32.820"W	2539.55	83.053	10.77	4.26	10.17
7381.00	83.180	154.280	6389.99	666.01	229.48	2563.87	1625485.04	336226.16	39°24'55.990"N	80°49'32.258"W	2574.12	84.885	8.75	5.09	7.21
7470.00	86.980	157.420	6449.62	749.01	148.59	2600.13	1625521.30	336145.27	39°24'55.196"N	80°49'31.780"W	2604.37	86.729	5.53	4.27	3.53
7560.00	87.840	160.650	6509.69	833.01	64.64	2632.29	1625553.46	336061.33	39°24'54.371"N	80°49'31.355"W	2633.09	88.593	3.71	0.96	3.59
7649.00	87.880	160.910	6569.61	920.01	-19.34	2661.57	1625582.74	335977.35	39°24'53.546"N	80°49'30.966"W	2661.64	90.416	0.30	0.04	0.29
7739.00	88.890	161.590	6629.55	1018.12	-104.52	2690.49	1625611.65	335892.17	39°24'52.708"N	80°49'30.582"W	2692.52	92.225	1.35	1.12	0.76
7828.00	90.000	161.560	6689.41	1116.38	-188.96	2718.62	1625639.78	335807.74	39°24'51.878"N	80°49'30.207"W	2725.18	93.976	1.25	1.25	-0.03
7918.00	90.000	160.230	6749.39	1197.37	-274.00	2748.07	1625669.23	335722.71	39°24'51.042"N	80°49'29.816"W	2761.70	95.694	1.48	0.00	-1.48
8007.00	89.940	157.470	6809.46	1286.34	-356.99	2780.18	1625701.34	335639.71	39°24'50.226"N	80°49'29.392"W	2803.01	97.317	3.10	-0.07	-3.10
8097.00	89.940	155.410	6869.55	1376.17	-439.49	2816.15	1625737.31	335557.23	39°24'49.416"N	80°49'28.918"W	2850.24	98.870	2.29	0.00	-2.29
8187.00	89.970	157.040	6929.62	1465.97	-521.85	2852.44	1625773.59	335474.87	39°24'48.608"N	80°49'28.440"W	2899.78	100.367	1.81	0.03	1.81

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# Actual Wellpath Report

SHR-40E-HS AWP Proj: 16046'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (179 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]
8376.00	90.030	157.010	6309.62	1554.85	-603.79	2887.18	1625808.33	335392.94	39°24'47.803"N	80°49'27.982"W	2949.63	101.812	0.08	0.07	-0.03
8366.00	89.970	156.590	6309.62	1644.71	-686.51	2922.63	1625843.78	335310.22	39°24'46.991"N	80°49'27.515"W	3002.18	103.219	0.47	-0.07	-0.47
8456.00	89.940	162.020	6309.69	1734.67	-770.67	2954.42	1625875.57	335226.06	39°24'46.163"N	80°49'27.094"W	3053.29	104.620	6.03	-0.03	6.03
8545.00	89.940	166.740	6309.79	1823.38	-856.36	2978.38	1625899.53	335140.38	39°24'45.320"N	80°49'26.773"W	3099.05	106.041	5.30	0.00	5.30
8636.00	90.000	165.690	6309.84	1913.84	-944.74	3000.06	1625921.21	335052.00	39°24'44.450"N	80°49'26.480"W	3145.30	107.480	1.16	0.07	-1.15
8724.00	90.250	162.500	6309.64	2001.61	-1029.36	3024.18	1625945.32	334967.39	39°24'43.617"N	80°49'26.157"W	3194.56	108.797	3.64	0.28	-3.63
8814.00	90.180	161.940	6309.31	2091.54	-1115.06	3051.66	1625972.80	334881.69	39°24'42.774"N	80°49'25.791"W	3249.00	110.072	0.63	-0.08	-0.62
8903.00	90.180	162.320	6309.03	2180.48	-1199.76	3078.97	1626000.11	334796.99	39°24'41.941"N	80°49'25.427"W	3304.46	111.289	0.43	0.00	0.43
8993.00	90.180	159.010	6308.74	2270.46	-1284.67	3108.76	1626029.90	334712.09	39°24'41.106"N	80°49'25.031"W	3363.75	112.453	3.68	0.00	-3.68
9082.00	90.150	157.680	6308.49	2359.42	-1367.39	3141.60	1626062.74	334629.37	39°24'40.294"N	80°49'24.597"W	3426.29	113.521	1.49	-0.03	-1.49
9172.00	90.120	160.470	6308.28	2449.40	-1451.45	3173.74	1626094.88	334545.32	39°24'39.468"N	80°49'24.172"W	3489.89	114.576	3.10	-0.03	3.10
9261.00	90.180	161.670	6308.04	2538.38	-1535.63	3202.62	1626123.75	334461.14	39°24'38.640"N	80°49'23.789"W	3551.75	115.617	1.35	0.07	1.35
9351.00	90.180	159.210	6307.76	2628.37	-1620.43	3232.75	1626153.88	334376.35	39°24'37.806"N	80°49'23.389"W	3616.14	116.623	2.73	0.00	-2.73
9440.00	90.250	157.510	6307.43	2717.33	-1703.15	3265.57	1626186.70	334293.63	39°24'36.994"N	80°49'22.955"W	3683.02	117.544	1.91	0.08	-1.91
9530.00	90.180	157.270	6307.09	2807.24	-1786.24	3300.17	1626221.30	334210.55	39°24'36.178"N	80°49'22.499"W	3752.56	118.425	0.28	-0.08	-0.27
9619.00	90.180	156.510	6306.81	2896.10	-1868.09	3335.10	1626256.23	334128.70	39°24'35.374"N	80°49'22.039"W	3822.65	119.255	0.85	0.00	-0.85
9709.00	90.280	156.870	6306.45	2985.95	-1950.75	3370.71	1626291.84	334046.05	39°24'34.562"N	80°49'21.569"W	3894.30	120.059	0.42	0.11	0.40
9798.00	90.250	157.440	6306.04	3074.84	-2032.76	3405.26	1626326.39	333964.04	39°24'33.757"N	80°49'21.114"W	3965.85	120.835	0.64	-0.03	0.64
9888.00	90.280	159.650	6305.62	3164.81	-2116.52	3438.18	1626359.30	333880.28	39°24'32.934"N	80°49'20.679"W	4037.42	121.616	2.46	0.03	2.46
9977.00	90.220	161.690	6305.23	3254.80	-2200.50	3467.64	1626388.76	333796.31	39°24'32.108"N	80°49'20.288"W	4106.91	122.398	2.29	-0.07	2.29
10067.00	90.180	162.640	6304.93	3344.93	-2286.17	3495.20	1626416.32	333710.64	39°24'31.265"N	80°49'19.921"W	4176.49	123.188	1.06	-0.04	1.06
10156.00	90.060	161.650	6304.72	3434.72	-2370.88	3522.49	1626443.61	333625.93	39°24'30.432"N	80°49'19.557"W	4246.06	123.943	1.12	-0.13	-1.11
10246.00	90.120	157.820	6304.55	3524.55	-2455.30	3553.66	1626474.77	333541.53	39°24'29.602"N	80°49'19.144"W	4319.37	124.641	4.26	0.07	-4.26
10335.00	90.120	159.930	6304.44	3614.44	-2538.31	3585.73	1626506.85	333458.52	39°24'28.787"N	80°49'18.720"W	4393.23	125.294	2.37	0.00	2.37
10424.00	89.880	160.150	6304.44	3704.44	-2621.97	3616.11	1626537.23	333374.87	39°24'27.964"N	80°49'18.317"W	4466.65	125.945	0.37	-0.27	0.25
10514.00	89.970	160.060	6304.52	3794.52	-2706.59	3646.74	1626567.85	333290.24	39°24'27.133"N	80°49'17.911"W	4541.41	126.583	0.14	0.10	-0.10
10604.00	89.910	158.880	6304.61	3880.62	-2790.88	3678.30	1626599.41	333205.97	39°24'26.304"N	80°49'17.494"W	4617.24	127.189	1.31	-0.07	-1.31
10694.00	89.780	158.930	6304.86	3970.60	-2874.84	3710.69	1626631.80	333122.00	39°24'25.479"N	80°49'17.065"W	4694.04	127.767	0.15	-0.14	0.06
10783.00	89.850	160.740	6305.14	4059.60	-2958.39	3741.37	1626662.48	333038.47	39°24'24.658"N	80°49'16.659"W	4769.69	128.334	2.04	0.08	2.03
10873.00	89.780	161.660	6305.44	4149.58	-3043.58	3770.38	1626691.48	332953.27	39°24'23.820"N	80°49'16.273"W	4845.53	128.912	1.03	-0.08	1.02

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# Actual Wellpath Report

SHR-40E-HS AWP Proj: 16046'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (179 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]
10962.00	89.750	162.190	6305.80	4238.53	-3128.19	3797.99	1626719.09	332868.67	39°24'22.988"N	80°49'15.906"W	4920.40	129.476	0.60	-0.03	0.60
11052.00	89.510	161.960	6306.38	4328.46	-3213.82	3825.69	1626746.79	332783.05	39°24'22.146"N	80°49'15.537"W	4996.45	130.032	0.37	-0.27	-0.26
11141.00	89.690	162.540	6307.00	4417.39	-3298.58	3852.82	1626773.92	332698.29	39°24'21.312"N	80°49'15.175"W	5071.97	130.568	0.68	0.20	0.65
11231.00	89.570	165.340	6307.58	4507.17	-3385.06	3877.72	1626798.81	332611.82	39°24'20.461"N	80°49'14.842"W	5147.36	131.119	3.11	-0.13	3.11
11320.00	89.600	159.850	6308.23	4596.04	-3469.95	3904.33	1626825.42	332526.93	39°24'19.626"N	80°49'14.487"W	5223.44	131.629	6.17	0.03	-6.17
11410.00	89.630	157.520	6308.83	4686.01	-3553.78	3937.04	1626858.13	332443.10	39°24'18.802"N	80°49'14.055"W	5303.74	132.071	2.59	0.03	-2.59
11500.00	89.750	158.240	6309.32	4775.95	-3637.16	3970.93	1626892.02	332359.73	39°24'17.983"N	80°49'13.608"W	5384.90	132.488	0.81	0.13	0.80
11589.00	89.880	159.280	6309.61	4864.92	-3720.11	4003.17	1626924.26	332276.78	39°24'17.168"N	80°49'13.181"W	5464.85	132.901	1.18	0.15	1.17
11679.00	89.910	159.750	6309.77	4954.92	-3804.42	4034.67	1626955.76	332192.48	39°24'16.340"N	80°49'12.764"W	5545.46	133.318	0.52	0.03	0.52
11768.00	90.000	159.510	6309.84	5043.92	-3887.85	4065.64	1626986.73	332109.05	39°24'15.520"N	80°49'12.354"W	5625.38	133.719	0.29	0.10	-0.27
11858.00	90.030	158.500	6309.82	5133.90	-3971.88	4097.89	1627018.98	332025.03	39°24'14.694"N	80°49'11.928"W	5706.88	134.105	1.12	0.03	-1.12
11948.00	90.000	157.700	6309.80	5223.85	-4055.38	4131.46	1627052.54	331941.53	39°24'13.874"N	80°49'11.484"W	5789.22	134.468	0.89	-0.03	-0.89
12037.00	89.940	157.560	6309.84	5312.78	-4137.68	4165.33	1627086.41	331859.23	39°24'13.065"N	80°49'11.038"W	5871.15	134.809	0.17	-0.07	-0.16
12127.00	89.880	157.620	6309.98	5402.70	-4220.89	4199.64	1627120.72	331776.03	39°24'12.248"N	80°49'10.585"W	5954.23	135.145	0.09	-0.07	0.07
12216.00	90.890	157.500	6309.39	5491.61	-4303.14	4233.61	1627154.69	331693.78	39°24'11.440"N	80°49'10.137"W	6036.60	135.467	1.14	1.13	-0.13
12306.00	89.910	158.410	6308.76	5581.55	-4386.56	4267.39	1627188.47	331610.37	39°24'10.621"N	80°49'09.691"W	6119.85	135.789	1.49	-1.09	1.01
12396.00	89.880	159.220	6308.92	5671.53	-4470.48	4299.92	1627220.99	331526.46	39°24'09.796"N	80°49'09.261"W	6202.78	136.114	0.90	-0.03	0.90
12485.00	90.000	161.040	6309.02	5760.53	-4554.18	4330.16	1627251.24	331442.76	39°24'08.973"N	80°49'08.860"W	6284.17	136.444	2.05	0.13	2.04
12575.00	89.940	162.680	6309.06	5850.48	-4639.70	4358.18	1627279.26	331357.24	39°24'08.132"N	80°49'08.487"W	6365.58	136.792	1.82	-0.07	1.82
12664.00	90.000	163.090	6309.11	5939.36	-4724.76	4384.38	1627305.45	331272.19	39°24'07.295"N	80°49'08.138"W	6445.63	137.140	0.47	0.07	0.46
12754.00	89.940	163.700	6309.16	6028.21	-4811.00	4410.10	1627331.16	331185.95	39°24'06.447"N	80°49'07.794"W	6526.46	137.490	0.68	-0.07	0.68
12844.00	89.910	164.280	6309.22	6117.09	-4897.51	4434.92	1627355.99	331099.44	39°24'05.595"N	80°49'07.462"W	6607.13	137.838	0.65	-0.03	0.64
12933.00	89.940	164.050	6309.27	6205.95	-4983.14	4459.20	1627380.27	331013.83	39°24'04.753"N	80°49'07.136"W	6687.01	138.176	0.26	0.03	-0.26
13023.00	89.910	162.340	6309.33	6294.81	-5069.29	4485.22	1627406.29	330927.68	39°24'03.905"N	80°49'06.789"W	6768.67	138.498	1.90	-0.03	-1.90
13113.00	89.970	159.330	6309.39	6383.69	-5154.30	4514.74	1627435.80	330842.67	39°24'03.069"N	80°49'06.397"W	6851.98	138.784	3.30	0.07	-3.30
13202.00	90.030	159.950	6309.45	6472.57	-5237.74	4545.69	1627466.75	330759.23	39°24'02.249"N	80°49'05.987"W	6935.22	139.046	0.62	0.07	0.62
13292.00	89.940	158.950	6309.63	6561.45	-5321.96	4577.42	1627498.48	330675.02	39°24'01.421"N	80°49'05.567"W	7019.69	139.301	1.26	-0.10	-1.26
13381.00	89.940	155.270	6309.72	6650.33	-5405.89	4612.15	1627533.21	330593.09	39°24'00.617"N	80°49'05.109"W	7104.50	139.520	3.96	0.00	-3.96
13471.00	89.880	153.130	6309.86	6744.98	-5484.92	4651.32	1627572.38	330512.07	39°23'59.822"N	80°49'04.595"W	7191.60	139.701	2.38	-0.07	-2.38
13560.00	89.940	153.540	6310.00	6833.38	-5564.45	4691.26	1627612.31	330432.54	39°23'59.042"N	80°49'04.072"W	7278.12	139.867	0.47	0.07	0.46

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# Actual Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (179 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]
13650.00	89.940	160.680	6310.10	6923.21	-5647.31	4726.24	1627647.30	330349.69	39°23'58.228"N	80°49'03.611"W	7364.07	140.074	7.93	0.00	7.93
13739.00	89.600	162.050	6310.45	7012.18	-5731.64	4754.68	1627675.73	330265.36	39°23'57.399"N	80°49'03.213"W	7447.06	140.323	1.59	-0.38	1.54
13829.00	90.490	164.650	6310.38	7102.02	-5817.86	4780.47	1627701.52	330179.15	39°23'56.550"N	80°49'02.888"W	7529.96	140.590	3.05	0.99	2.89
13918.00	90.830	165.780	6309.36	7190.64	-5903.91	4803.18	1627724.22	330093.11	39°23'55.703"N	80°49'02.583"W	7610.95	140.870	1.33	0.38	1.27
14008.00	90.950	161.780	6307.96	7280.41	-5990.30	4828.31	1627749.35	330006.72	39°23'54.853"N	80°49'02.247"W	7693.91	141.130	4.45	0.13	-4.44
14098.00	90.650	163.060	6306.70	7370.32	-6076.08	4855.49	1627776.53	329920.94	39°23'54.009"N	80°49'01.884"W	7777.82	141.371	1.46	-0.33	1.42
14187.00	91.050	158.160	6305.38	7459.28	-6160.00	4885.02	1627806.07	329837.03	39°23'53.184"N	80°49'01.493"W	7861.87	141.585	5.52	0.45	-5.51
14277.00	90.950	157.370	6303.81	7549.20	-6243.29	4919.07	1627840.12	329753.74	39°23'52.366"N	80°49'01.043"W	7948.33	141.766	0.88	-0.11	-0.88
14366.00	90.520	156.110	6302.67	7638.05	-6325.05	4954.22	1627875.26	329671.98	39°23'51.563"N	80°49'00.580"W	8034.33	141.929	1.50	-0.48	-1.42
14456.00	90.580	158.280	6301.80	7727.93	-6408.01	4989.10	1627910.13	329589.03	39°23'50.748"N	80°49'00.121"W	8121.18	142.097	2.41	0.07	2.41
14546.00	90.710	160.290	6300.79	7817.91	-6492.18	5020.93	1627941.96	329504.87	39°23'49.921"N	80°48'59.700"W	8207.20	142.282	2.24	0.14	2.23
14635.00	90.710	161.490	6299.69	7906.89	-6576.27	5050.06	1627971.10	329420.78	39°23'49.094"N	80°48'59.313"W	8291.59	142.479	1.35	0.00	1.35
14725.00	90.680	160.840	6298.60	7996.87	-6661.44	5079.12	1628000.15	329335.61	39°23'48.257"N	80°48'58.927"W	8376.88	142.676	0.72	-0.03	-0.72
14814.00	90.620	161.090	6297.59	8085.85	-6745.57	5108.14	1628029.17	329251.49	39°23'47.430"N	80°48'58.542"W	8461.43	142.865	0.29	-0.07	0.28
14904.00	90.180	160.060	6296.96	8175.84	-6830.44	5138.07	1628059.10	329166.62	39°23'46.595"N	80°48'58.144"W	8547.20	143.048	1.24	-0.49	-1.14
14994.00	90.220	158.990	6296.64	8265.83	-6914.75	5169.55	1628090.58	329082.31	39°23'45.767"N	80°48'57.728"W	8633.54	143.218	1.19	0.04	-1.19
15083.00	90.180	159.420	6296.33	8354.82	-6997.96	5201.15	1628122.18	328999.12	39°23'44.949"N	80°48'57.310"W	8719.14	143.379	0.49	-0.04	0.48
15173.00	90.250	159.790	6296.00	8444.82	-7082.31	5232.51	1628153.54	328914.76	39°23'44.120"N	80°48'56.895"W	8805.59	143.542	0.42	0.08	0.41
15262.00	90.120	159.300	6295.71	8533.82	-7165.70	5263.62	1628184.64	328831.38	39°23'43.300"N	80°48'56.483"W	8891.17	143.701	0.57	-0.15	-0.55
15352.00	90.180	158.980	6295.47	8623.81	-7249.80	5295.66	1628216.69	328747.28	39°23'42.474"N	80°48'56.059"W	8977.95	143.853	0.36	0.07	-0.36
15442.00	90.120	159.890	6295.24	8713.80	-7334.06	5327.28	1628248.30	328663.03	39°23'41.646"N	80°48'55.641"W	9064.68	144.006	1.01	-0.07	1.01
15531.00	90.120	160.770	6295.05	8802.80	-7417.87	5357.23	1628278.25	328579.22	39°23'40.822"N	80°48'55.244"W	9150.12	144.163	0.99	0.00	0.99
15621.00	90.150	160.990	6294.84	8892.79	-7502.90	5386.71	1628307.73	328494.19	39°23'39.986"N	80°48'54.852"W	9236.36	144.324	0.25	0.03	0.24
15710.00	90.150	157.550	6294.79	8982.71	-7586.14	5418.19	1628339.20	328410.97	39°23'39.168"N	80°48'54.436"W	9322.35	144.465	3.83	0.00	-3.83
15800.00	89.850	153.910	6294.71	9072.50	-7668.18	5455.16	1628376.18	328328.93	39°23'38.362"N	80°48'53.950"W	9410.62	144.572	4.10	-0.33	-4.09
15890.00	89.880	155.910	6294.62	9162.12	-7749.57	5493.57	1628414.58	328247.55	39°23'37.563"N	80°48'53.445"W	9499.21	144.668	1.87	0.03	1.87
15979.00	90.030	159.070	6294.89	9251.01	-7831.65	5527.92	1628448.93	328165.46	39°23'36.757"N	80°48'52.993"W	9586.07	144.784	3.85	0.17	3.84
16023.00	89.880	157.070	6294.92	9339.00	-7872.74	5543.66	1628464.67	328124.38	39°23'36.353"N	80°48'52.784"W	9628.72	144.848	0.38	-0.34	0.16
16046.00	89.880	157.070	6294.92	9317.00	-7894.22	5551.88	1628472.89	328102.90	39°23'36.142"N	80°48'52.676"W	9651.02	144.882	0.00	0.00	0.00

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# Actual Wellpath Report

SHR-40E-HS AWP Proj: 16046'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot E
Area	Tyler County, WV	Well	SHR-40E-HS
Field	Tyler	Wellbore	SHR-40E-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-40E-HS BHL Rev-2		6303.00	-7902.63	5532.33	1628453.34	328094.49	39°23'36.056"N	80°48'52.923"W	point
SHR-40E-HS LP Rev-2		6303.00	141.14	2604.64	1625525.81	336137.82	39°24'55.123"N	80°49'31.721"W	point
SHR-40 Pad LL		6599.23	45.77	1.28	1622922.59	336042.46	39°24'53.800"N	80°50'04.870"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: SHR-40E-HS AWB Ref Wellpath: SHR-40E-HS AWP Proj: 16046'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.40	2119.40	Generic gyro - continuous (Standard)	01 MS Rate Gyro <12-1/4"> (100'-2100')	SHR-40E-HS AWB
2119.40	2452.00	NaviTrak (MagCorr)	02 BHI AT Curve MagCorr <8-3/4"> (2119.4')(2273'-2452')	SHR-40E-HS AWB
2452.00	16023.00	NaviTrak (AT Curve Short Spaced)	03 BHI AT Curve SS <8-3/4"> (2452')(2542'-16023')	SHR-40E-HS AWB
16023.00	16046.00	Blind Drilling (std)	Projection to bit	SHR-40E-HS AWB

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# Actual Wellpath Report

SHR-40E-HS AWP Proj: 16046'

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## REFERENCE WELLPATH IDENTIFICATION

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

## COMMENTS

### Wellpath general comments

API: 47-095-02213-0000

BHI Job #: 7366893

Rig: Precision 542

Duration: 7/14/2015-7/21/2015

MS Gyro <12-1/4" > (100'-2100')

BHI AT Curve <8-3/4" > (2119.4')(2273'-16023')

Projected MD at TD: 16046'

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47-095-02213P



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

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**Plugging H6A Horizontal Well Work Permit (API: 47-095-02213)**

1 message

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

Thu, Sep 9, 2021 at 8:07 AM

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

I have attached a copy of the newly issued well [permit](#) number, “**SHR 40 EHS**”, API: (**47-095-02213**). This will serve as your copy.

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

Thank you,

**Wade A. Stansberry**

**Environmental Resource Specialist 3**

**West Virginia Department of Environmental Protection**

**Office of Oil & Gas**

**601 57th St. SE**

**Charleston, WV 25304**

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


**(304) 926-0452 fax**

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

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**2 attachments**

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

 **47-095-02213 - Copy.pdf**  
2587K

**09/10/2021**