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west virginia department of environmental protection

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

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

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

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

Re: Permit approval for SHR3JHS  
47-095-02197-00-00

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, written in a cursive style.

James A. Martin  
Chief

Operator's Well Number: SHR3JHS  
Farm Name: NOBLE ENERGY, INC.  
U.S. WELL NUMBER: 47-095-02197-00-00  
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.

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### 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-3J-HS
- 3) API Well No. 47-095 - 02197

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

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

- 4) Well Type: Oil \_\_\_ / Gas x / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production x or Underground storage \_\_\_) Deep \_\_\_ / Shallow x
- 5) Location: Elevation 751 Watershed Middle Island Creek  
District Centerville County Tyler Quadrangle Shirley
- 6) Well Operator CNX Gas Company LLC 7) Designated Agent Anthony Mendziora  
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 Conserve  
Address 929 Charleston Road  
Spencer, WV 25276

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

*\* WR - 35 INDICATES CEMENT TOP FOR PRODUCTION CASING IS 3859 FT. THIS IS QUESTIONABLE AS OTHER INFO SUGGESTS CEMENT CIRCULATED TO SURFACE.*

*\* BOND LOG WILL VERIFY CEMENT TOP.*

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

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

09/10/2021



|                          |               |
|--------------------------|---------------|
| <b>CNX GAS, LLC</b>      | 47-095-02197P |
| <b>Well Bore Diagram</b> |               |
| <b>SHRL-3J-HS</b>        |               |

State: West Virginia  
 County: Tyler  
 Field: Shirley

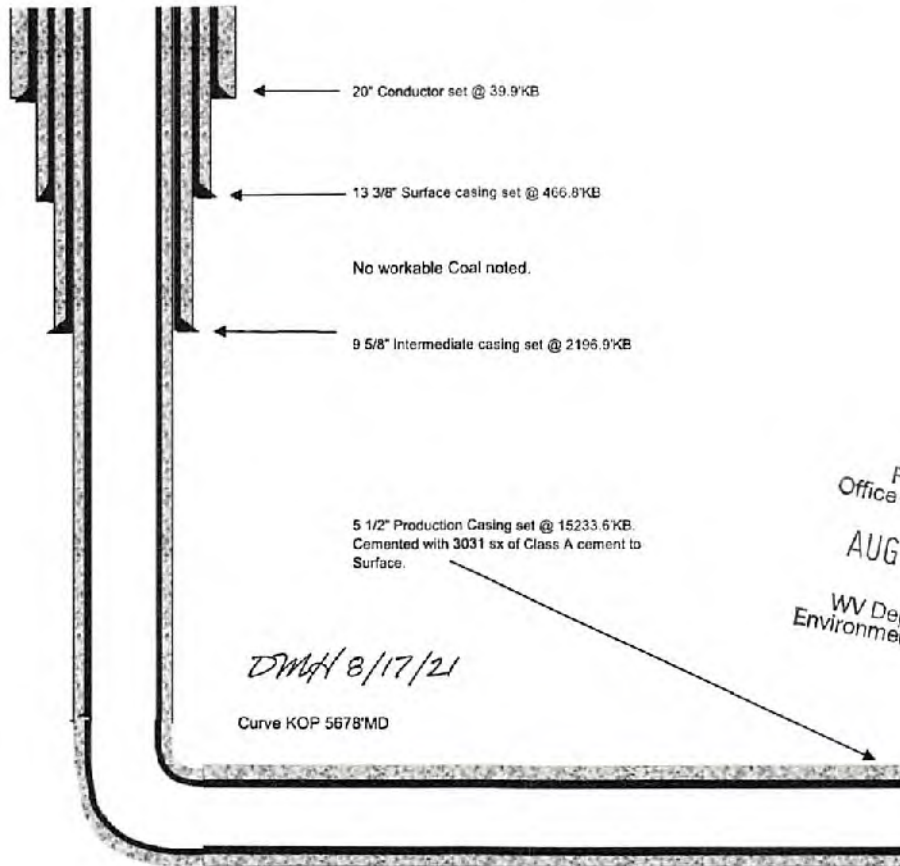
API #: 47-095-02197-00  
 Lease #: \_\_\_\_\_  
 Permit #: \_\_\_\_\_

Current Completion: Burket  
 TD MD / TVD: 15301 6268  
 Cased Hole Depth 15233.6 MD  
 Elevations 751 GL 19.25 KB  
 KOP: 5678 MD 5665 TVD  
 ETOC: Surface 3031 sx

Elev Corr 770.25  
 Date Updated 8/9/2021

**Casing**

|            |         |            |         |                   |               |            |        |
|------------|---------|------------|---------|-------------------|---------------|------------|--------|
| Conductor  | 20"     | Depth Set: | 39.9    | Grade and Weight: | K55 54.5# BTC | Hole Size: | 17.5"  |
| Surface:   | 13 3/8" | Depth Set: | 466.8   | Grade and Weight: | HCK55 36# BTC | Hole Size: | 12.25" |
| Intermed:  | 9 5/8"  | Depth Set: | 2196.9  | Grade and Weight: | P110 20# BTC  | Hole Size: | 8.5"   |
| Production | 5 1/2"  | Depth Set: | 15233.6 | 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.

DWAH 8/17/21

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

API 47 - 095 - 02197 County Tyler District Centerville  
Quad Shirley Pad Name SHR Field/Pool Name N/A  
Farm name Noble Energy, Inc. Well Number SHR 3 JHS  
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 4362750.72 Easting 514373.13  
Landing Point of Curve Northing 4362592.73 Easting 514488.58  
Bottom Hole Northing 4380129.85 Easting 515431.83

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

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
Synthetic Oil Based

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Date permit issued 8/26/2014 Date drilling commenced 10/4/2014 Date drilling ceased 2/24/2015  
Date completion activities began Not completed Date completion activities ceased NA  
Verbal plugging (Y/N) N Date permission granted NA Granted by NA

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

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

Reviewed by:

09/10/2021



WR-35  
Rev. 8/23/13

API 47-095 - 02197

Farm name Noble Energy, Inc.

Well number SHR 3 JHS

| CASING STRINGS            | Hole Size | Casing Size | Depth    | New or Used | Grade wt/ft | Basket Depth(s) | Did cement circulate (Y/N)<br>* Provide details below* |
|---------------------------|-----------|-------------|----------|-------------|-------------|-----------------|--|
| Conductor                 | 24"       | 20"         | 40       |             |             |                 |  |
| Surface                   | 17 1/2"   | 13 3/8"     | 466.8    | New         | K-55        |                 | Y  |
| Coal                      |           |             |          |             |             |                 |  |
| Intermediate 1            | 13 3/8"   | 9 5/8"      | 2196.9   | New         | HCK-55      |                 | Y  |
| Intermediate 2            |           |             |          |             |             |                 |  |
| Intermediate 3            |           |             |          |             |             |                 |  |
| Production                | 8-3/4"    | 5 1/2"      | 15,233.6 | New         | P-110       |                 | Y  |
| Tubing                    |           |             |          |             |             |                 |  |
| Packer type and depth set |           |             |          |             |             |                 |  |

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

| CEMENT DATA    | Class/Type of Cement | Number of Sacks    | Slurry wt (ppg)     | Yield (ft <sup>3</sup> /sks) | Volume (ft <sup>3</sup> ) | Cement Top (MD) | WOC (hrs) |
|----------------|----------------------|--------------------|---------------------|------------------------------|---------------------------|-----------------|-----------|
| Conductor      |                      |                    |                     |                              |                           |                 |           |
| Surface        | Class A              | 436                | 15.6                | 1.18                         | 514.5                     |                 | 8         |
| Coal           |                      |                    |                     |                              |                           |                 |           |
| Intermediate 1 | Class A              | 860                | 15.6                | 1.18                         | 1014.8                    |                 | 8         |
| Intermediate 2 |                      |                    |                     |                              |                           |                 |           |
| Intermediate 3 |                      |                    |                     |                              |                           |                 |           |
| Production     | Class A              | Lead 826 Tail 2205 | Lead 14.2 Tail 14.8 | Lead 1.32 Tail 1.29          | Lead 1090.3 Tail 2044.4   | 3859.0          | 8         |
| Tubing         |                      |                    |                     |                              |                           |                 |           |

Drillers TD (ft) 15,263      Loggers TD (ft) 15,174

Deepest formation penetrated Marcellus      Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5204

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

Well cored     Yes     No      Conventional      Sidewall      Were cuttings collected  Yes     No

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DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

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

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

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

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

09/10/2021





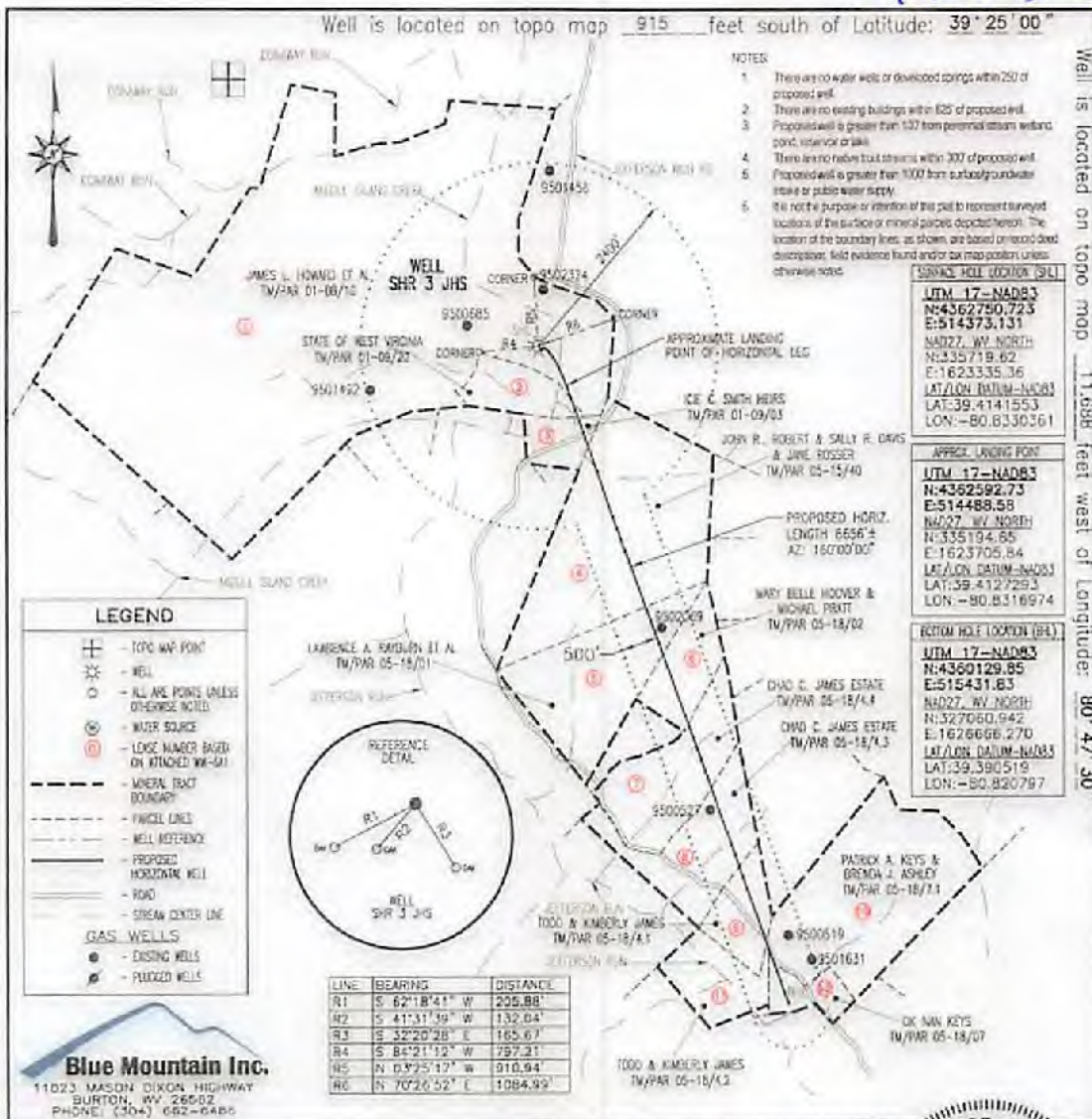


| SHR 3 HHS Formations | Top  | Base |
|----------------------|------|------|
| Shale                | 0    | 766  |
| Pittsburgh Coal      | 766  | 775  |
| Shale and Sandstone  | 775  | 1222 |
| Dunkard Sand         | 1222 | 1233 |
| Shale                | 1233 | 1404 |
| Gas Sand             | 1404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

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**Blue Mountain Inc.**  
11023 MASON OXON HIGHWAY  
BURTON, WV 25602  
PHONE: (304) 682-6485

FILE #: SHR 3 JHS  
DRAWING #: SHR 3 JHS  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*  
R.P.E.: L.L.S.: P.S. No. 2000

**GEORGE A. SIX**  
LICENSED PROFESSIONAL ENGINEER  
No. 2000  
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304

DATE: JUNE 10, 2014  
OPERATOR'S WELL #: SHR 3 JHS  
API WELL #: 47 95 02197H04  
STATE COUNTY PERMIT

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

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 751±

COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: SHIRLEY, WV 75'

SURFACE OWNER: Noble Energy, Inc. ACREAGE: 542.81±

OIL & GAS ROYALTY OWNER: SEE ATTACHED W-641 ACREAGE: 1057.941±

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

TARGET FORMATION: BURKETT ESTIMATED DEPTH: TVD: 6,275± TMD: 15,331±

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



WW-4A  
Revised 6-07

1) Date: 8-16-2021  
2) Operator's Well Number  
SHRL-3J-HS  
3) API Well No.: 47 - 095 - 02197

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

|  |   |
|--|---|
| <b>4) Surface Owner(s) to be served:</b> | <b>5) (a) Coal Operator</b>               |
| (a) Name <u>CNX Gas Company</u>          | Name <u>N/A</u>                           |
| Address <u>1000 Consol Energy Drive</u>  | Address _____                             |
| <u>Canonsburg PA 15317</u>               | _____                                     |
| (b) Name _____                           | <b>(b) Coal Owner(s) with Declaration</b> |
| Address _____                            | Name <u>N/A</u>                           |
| _____                                    | Address _____                             |
| (c) Name _____                           | Name _____                                |
| Address _____                            | Address _____                             |
| _____                                    | _____                                     |
| <b>6) Inspector</b> <u>Derek Haught</u>  | <b>(c) Coal Lessee with Declaration</b>   |
| Address <u>PO box 85</u>                 | Name <u>N/A</u>                           |
| <u>Smithville WV 26178</u>               | Address _____                             |
| Telephone <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 has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

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

WV Department of  
Environmental Protection

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

My Commission Expires 6/19/22

Notary

Commonwealth of Pennsylvania  
Public Vicki L. Smith, Notary F  
Indiana County  
My commission expires June 10, 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).

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47-095-02197 P

7019 1120 0001 5856 2969

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Canonsburg, PA 15317

|  |        |
|--|--------|
| 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  |        |
| \$   |        |



Sent to \_\_\_\_\_  
 Street \_\_\_\_\_  
 City, S \_\_\_\_\_

PS Form 3800, April 2017 PSN 7530-02-000-9000 Instructions

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WW-9  
(5/16)

47-095-02197P

API Number 47 - 095 - 02197  
Operator's Well No. SHRL-3J-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 494458045

Watershed (HUC 10) Middle Island Creek Quadrangle Shirley

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

Will a pit be used? Yes  No

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

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

Proposed Disposal Method For Treated Pit Wastes:

*DWH 8/17/21*

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

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

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

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

Additives to be used in drilling medium? na

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

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

-Landfill or offsite name/permit number? na

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Raymond Hoon*

Company Official (Typed Name) Raymond Hoon

Company Official Title Senior Project Manager

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

*Vicki L. Smith*

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

My commission expires 10/19/22

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

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

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

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

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Derek M. Haught

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Title: Oil & Gas Inspector

Date: 8/17/21

Field Reviewed? ( X ) Yes ( ) No



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 4709502197 WELL NO.: SHRL-3J-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: 4362750.723

UTM GPS EASTING: 514373.131 GPS ELEVATION: 751

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

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

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

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

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

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature]  
Signature

Project manager  
Title

8-18-21  
Date

09/10/2021







# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'

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## REFERENCE WELLPATH IDENTIFICATION

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

## REPORT SETUP INFORMATION

|                     |   |                      |  |
|---------------------|---|----------------------|--|
| Projection System   | NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet | Software System      | WellArchitect® 4.0.1                     |
| North Reference     | Grid  | User                 | Edsaryar                                 |
| Scale               | 0.999948  | Report Generated     | 24/Feb/2015 at 10:31                     |
| Convergence at slot | 0.85° West  | Database/Source file | WellArchitectEasternDB/SHR-3J-HS_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude      |
| Slot Location         | -23.83            | 37.35    | 1623335.38       | 335719.61       | 39°24'50.670"N         | 80°49'59.550"W |
| Facility Reference Pt |                   |          | 1623298.03       | 335743.44       | 39°24'50.900"N         | 80°50'00.030"W |
| Field Reference Pt    |                   |          | 609601.22        | 0.00            | 38°23'48.753"N         | 84°21'09.765"W |

## WELLPATH DATUM

|                          |                     |  |                   |
|--------------------------|---------------------|--|-------------------|
| Calculation method       | Minimum curvature   | Precision 542 (RKB) to Facility Vertical Datum   | 770.49ft          |
| Horizontal Reference Pt  | Slot                | Precision 542 (RKB) to Mean Sea Level            | 770.49ft          |
| Vertical Reference Pt    | Precision 542 (RKB) | Precision 542 (RKB) to Mud Line at Slot (Slot J) | 18.50ft           |
| MD Reference Pt          | Precision 542 (RKB) | Section Origin                                   | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level      | Section Azimuth                                  | 160.00°           |

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# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (182 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           | 60.350      | 0.00     | 0.00           | 0.00       | 0.00      | 1623335.38        | 335719.61          | 39°24'50.670"N | 80°49'59.550"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 18.50   | 0.000           | 60.350      | 18.50    | 0.00           | 0.00       | 0.00      | 1623335.38        | 335719.61          | 39°24'50.670"N | 80°49'59.550"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 118.50  | 0.220           | 60.350      | 118.50   | -0.03          | 0.09       | 0.17      | 1623335.55        | 335719.70          | 39°24'50.671"N | 80°49'59.548"W | 0.19              | 60.350          | 0.22          | 0.22                 | 0.00                |
| 218.50  | 1.140           | 264.200     | 218.49   | -0.31          | 0.09       | -0.66     | 1623334.72        | 335719.70          | 39°24'50.671"N | 80°49'59.558"W | 0.66              | 277.762         | 1.34          | 0.92                 | -156.15             |
| 318.50  | 0.300           | 219.150     | 318.49   | -0.42          | -0.21      | -1.81     | 1623333.57        | 335719.40          | 39°24'50.668"N | 80°49'59.573"W | 1.82              | 263.257         | 0.95          | -0.84                | -45.05              |
| 418.50  | 0.230           | 32.430      | 418.49   | -0.41          | -0.25      | -1.87     | 1623333.51        | 335719.36          | 39°24'50.667"N | 80°49'59.574"W | 1.89              | 262.448         | 0.53          | -0.07                | 173.28              |
| 518.50  | 0.420           | 269.150     | 518.48   | -0.65          | -0.08      | -2.13     | 1623333.25        | 335719.53          | 39°24'50.669"N | 80°49'59.577"W | 2.13              | 267.745         | 0.58          | 0.19                 | -123.28             |
| 618.50  | 0.810           | 265.190     | 618.48   | -0.95          | -0.15      | -3.20     | 1623332.18        | 335719.46          | 39°24'50.668"N | 80°49'59.590"W | 3.20              | 267.342         | 0.39          | 0.39                 | -3.96               |
| 718.50  | 0.940           | 254.710     | 718.47   | -1.21          | -0.42      | -4.69     | 1623330.69        | 335719.19          | 39°24'50.665"N | 80°49'59.609"W | 4.71              | 264.838         | 0.21          | -0.13                | -10.48              |
| 818.50  | 0.900           | 264.980     | 818.45   | -1.48          | -0.71      | -6.27     | 1623329.11        | 335718.90          | 39°24'50.662"N | 80°49'59.629"W | 6.31              | 263.545         | 0.17          | -0.04                | 10.27               |
| 918.50  | 0.570           | 246.180     | 918.45   | -1.65          | -0.98      | -7.50     | 1623327.88        | 335718.63          | 39°24'50.659"N | 80°49'59.645"W | 7.57              | 262.570         | 0.40          | -0.33                | -18.80              |
| 1018.50 | 0.500           | 232.940     | 1018.44  | -1.49          | -1.44      | -8.31     | 1623327.07        | 335718.17          | 39°24'50.654"N | 80°49'59.655"W | 8.43              | 260.150         | 0.14          | -0.07                | -13.24              |
| 1118.50 | 0.450           | 242.180     | 1118.44  | -1.30          | -1.89      | -9.00     | 1623326.38        | 335717.72          | 39°24'50.650"N | 80°49'59.664"W | 9.20              | 258.152         | 0.09          | -0.05                | 9.24                |
| 1218.50 | 0.570           | 238.440     | 1218.43  | -1.15          | -2.33      | -9.77     | 1623325.61        | 335717.28          | 39°24'50.645"N | 80°49'59.674"W | 10.05             | 256.580         | 0.12          | 0.12                 | -3.74               |
| 1318.50 | 0.370           | 247.840     | 1318.43  | -1.04          | -2.71      | -10.50    | 1623324.88        | 335716.90          | 39°24'50.642"N | 80°49'59.683"W | 10.84             | 255.502         | 0.21          | -0.20                | 9.40                |
| 1418.50 | 0.300           | 289.910     | 1418.43  | -1.20          | -2.75      | -11.04    | 1623324.34        | 335716.86          | 39°24'50.641"N | 80°49'59.690"W | 11.38             | 256.030         | 0.25          | -0.07                | 42.07               |
| 1518.50 | 0.310           | 284.520     | 1518.43  | -1.52          | -2.59      | -11.55    | 1623323.83        | 335717.02          | 39°24'50.643"N | 80°49'59.696"W | 11.84             | 257.361         | 0.03          | 0.01                 | -5.39               |
| 1618.50 | 0.300           | 272.030     | 1618.43  | -1.77          | -2.51      | -12.07    | 1623323.31        | 335717.10          | 39°24'50.643"N | 80°49'59.703"W | 12.33             | 258.243         | 0.07          | -0.01                | -12.49              |
| 1718.50 | 0.160           | 283.800     | 1718.43  | -1.94          | -2.47      | -12.47    | 1623322.91        | 335717.14          | 39°24'50.644"N | 80°49'59.708"W | 12.71             | 258.795         | 0.15          | -0.14                | 11.77               |
| 1818.50 | 0.200           | 308.160     | 1818.43  | -2.17          | -2.33      | -12.74    | 1623322.64        | 335717.28          | 39°24'50.645"N | 80°49'59.712"W | 12.96             | 259.642         | 0.09          | 0.04                 | 24.36               |
| 1918.50 | 0.340           | 275.630     | 1918.42  | -2.45          | -2.19      | -13.18    | 1623322.20        | 335717.42          | 39°24'50.646"N | 80°49'59.717"W | 13.36             | 260.554         | 0.20          | 0.14                 | -32.53              |
| 2018.50 | 0.290           | 284.880     | 2018.42  | -2.72          | -2.10      | -13.72    | 1623321.66        | 335717.51          | 39°24'50.647"N | 80°49'59.724"W | 13.88             | 261.303         | 0.07          | -0.05                | 9.25                |
| 2118.50 | 0.180           | 311.810     | 2118.42  | -3.00          | -1.93      | -14.08    | 1623321.30        | 335717.68          | 39°24'50.649"N | 80°49'59.729"W | 14.21             | 262.200         | 0.15          | -0.11                | 26.93               |
| 2217.00 | 0.090           | 102.190     | 2216.92  | -3.10          | -1.84      | -14.12    | 1623321.26        | 335717.77          | 39°24'50.650"N | 80°49'59.729"W | 14.24             | 262.567         | 0.27          | -0.09                | 152.67              |
| 2262.00 | 0.550           | 183.260     | 2261.92  | -2.88          | -2.06      | -14.10    | 1623321.28        | 335717.55          | 39°24'50.647"N | 80°49'59.729"W | 14.25             | 261.666         | 1.21          | 1.02                 | 180.16              |
| 2307.00 | 2.830           | 169.100     | 2306.90  | -1.59          | -3.37      | -13.90    | 1623321.48        | 335716.24          | 39°24'50.635"N | 80°49'59.726"W | 14.30             | 256.364         | 5.11          | 5.07                 | -31.47              |
| 2352.00 | 3.760           | 162.010     | 2351.82  | 0.99           | -5.87      | -13.23    | 1623322.15        | 335713.74          | 39°24'50.610"N | 80°49'59.717"W | 14.47             | 246.093         | 2.25          | 2.07                 | -15.76              |
| 2397.00 | 5.110           | 161.510     | 2396.69  | 4.46           | -9.17      | -12.14    | 1623323.24        | 335710.44          | 39°24'50.577"N | 80°49'59.703"W | 15.21             | 232.937         | 3.00          | 3.00                 | -1.11               |
| 2441.00 | 4.840           | 161.320     | 2440.52  | 8.28           | -12.79     | -10.93    | 1623324.46        | 335706.82          | 39°24'50.542"N | 80°49'59.687"W | 16.82             | 220.511         | 0.61          | -0.61                | -0.43               |
| 2486.00 | 4.210           | 162.880     | 2485.38  | 11.83          | -16.16     | -9.83     | 1623325.55        | 335703.45          | 39°24'50.509"N | 80°49'59.672"W | 18.92             | 211.308         | 1.43          | -1.40                | 3.47                |

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# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (182 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TYD [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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 2531.00 | 4.300           | 161.510     | 2530.26  | 15.16          | -19.34     | -8.81     | 1623326.57        | 335700.27          | 39°24'50.477"N | 80°49'59.658"W | 21.25             | 204.487         | 0.30          | 0.20                 | -3.04               |
| 2576.00 | 4.870           | 159.520     | 2575.11  | 18.76          | -22.73     | -7.61     | 1623327.77        | 335696.88          | 39°24'50.444"N | 80°49'59.642"W | 23.97             | 198.501         | 1.31          | 1.27                 | -4.42               |
| 2621.00 | 4.670           | 157.980     | 2619.96  | 22.50          | -26.22     | -6.25     | 1623329.13        | 335693.39          | 39°24'50.410"N | 80°49'59.624"W | 26.95             | 193.410         | 0.53          | -0.44                | -3.42               |
| 2665.00 | 3.790           | 154.660     | 2663.84  | 25.74          | -29.19     | -4.96     | 1623330.42        | 335690.42          | 39°24'50.381"N | 80°49'59.607"W | 29.61             | 189.637         | 2.08          | -2.00                | -7.55               |
| 2711.00 | 3.170           | 156.910     | 2709.75  | 28.52          | -31.74     | -3.81     | 1623331.57        | 335687.87          | 39°24'50.356"N | 80°49'59.592"W | 31.97             | 186.841         | 1.38          | -1.35                | 4.89                |
| 2755.00 | 3.220           | 156.350     | 2753.68  | 30.97          | -33.99     | -2.83     | 1623332.55        | 335685.62          | 39°24'50.334"N | 80°49'59.579"W | 34.11             | 184.768         | 0.13          | 0.11                 | -1.27               |
| 2800.00 | 4.600           | 156.860     | 2798.58  | 34.03          | -36.81     | -1.62     | 1623333.76        | 335682.81          | 39°24'50.306"N | 80°49'59.563"W | 36.84             | 182.518         | 3.07          | 3.07                 | 1.13                |
| 2845.00 | 4.410           | 153.070     | 2843.44  | 37.55          | -40.01     | -0.13     | 1623335.25        | 335679.60          | 39°24'50.274"N | 80°49'59.544"W | 40.01             | 180.180         | 0.78          | -0.42                | -8.42               |
| 2890.00 | 3.800           | 150.590     | 2888.32  | 40.74          | -42.85     | 1.39      | 1623336.77        | 335676.76          | 39°24'50.247"N | 80°49'59.524"W | 42.87             | 178.142         | 1.41          | -1.36                | -5.51               |
| 2934.00 | 2.940           | 151.810     | 2932.25  | 43.30          | -45.11     | 2.64      | 1623338.02        | 335674.50          | 39°24'50.224"N | 80°49'59.508"W | 45.19             | 176.652         | 1.96          | -1.95                | 2.77                |
| 2979.00 | 1.760           | 170.780     | 2977.21  | 45.12          | -46.81     | 3.29      | 1623338.67        | 335672.80          | 39°24'50.208"N | 80°49'59.499"W | 46.93             | 175.974         | 3.11          | -2.62                | 42.16               |
| 3069.00 | 0.800           | 166.130     | 3067.19  | 47.10          | -48.79     | 3.67      | 1623339.05        | 335670.82          | 39°24'50.188"N | 80°49'59.494"W | 48.93             | 175.702         | 1.07          | -1.07                | -5.17               |
| 3158.00 | 0.460           | 145.810     | 3156.18  | 48.06          | -49.69     | 4.02      | 1623339.40        | 335669.93          | 39°24'50.179"N | 80°49'59.489"W | 49.85             | 175.378         | 0.45          | -0.38                | -22.83              |
| 3248.00 | 0.460           | 192.560     | 3246.18  | 48.72          | -50.34     | 4.14      | 1623339.52        | 335669.27          | 39°24'50.173"N | 80°49'59.488"W | 50.51             | 175.297         | 0.41          | 0.00                 | 51.94               |
| 3338.00 | 0.400           | 202.620     | 3336.18  | 49.25          | -50.98     | 3.94      | 1623339.32        | 335668.63          | 39°24'50.167"N | 80°49'59.490"W | 51.13             | 175.579         | 0.11          | -0.07                | 11.18               |
| 3427.00 | 0.280           | 230.220     | 3425.17  | 49.56          | -51.41     | 3.66      | 1623339.03        | 335668.21          | 39°24'50.162"N | 80°49'59.493"W | 51.54             | 175.933         | 0.22          | -0.13                | 31.01               |
| 3517.00 | 0.370           | 229.820     | 3515.17  | 49.73          | -51.73     | 3.26      | 1623338.64        | 335667.88          | 39°24'50.159"N | 80°49'59.498"W | 51.84             | 176.390         | 0.10          | 0.10                 | -0.44               |
| 3606.00 | 0.470           | 214.500     | 3604.17  | 50.04          | -52.22     | 2.84      | 1623338.22        | 335667.39          | 39°24'50.154"N | 80°49'59.504"W | 52.30             | 176.890         | 0.17          | 0.11                 | -17.21              |
| 3696.00 | 0.360           | 196.790     | 3694.17  | 50.48          | -52.80     | 2.55      | 1623337.93        | 335666.82          | 39°24'50.149"N | 80°49'59.507"W | 52.86             | 177.238         | 0.19          | -0.12                | -19.68              |
| 3785.00 | 0.250           | 104.810     | 3783.17  | 50.82          | -53.11     | 2.65      | 1623338.03        | 335666.50          | 39°24'50.145"N | 80°49'59.506"W | 53.18             | 177.139         | 0.50          | -0.12                | -103.35             |
| 3875.00 | 0.310           | 116.110     | 3873.17  | 51.11          | -53.27     | 3.06      | 1623338.44        | 335666.34          | 39°24'50.144"N | 80°49'59.501"W | 53.36             | 176.710         | 0.09          | 0.07                 | 12.56               |
| 3965.00 | 0.320           | 111.540     | 3963.16  | 51.45          | -53.47     | 3.51      | 1623338.89        | 335666.14          | 39°24'50.142"N | 80°49'59.495"W | 53.59             | 176.239         | 0.03          | 0.01                 | -5.08               |
| 4054.00 | 0.230           | 67.360      | 4052.16  | 51.60          | -53.49     | 3.91      | 1623339.29        | 335666.12          | 39°24'50.142"N | 80°49'59.490"W | 53.64             | 175.819         | 0.25          | -0.10                | -49.64              |
| 4144.00 | 0.200           | 217.390     | 4142.16  | 51.68          | -53.55     | 3.98      | 1623339.36        | 335666.07          | 39°24'50.141"N | 80°49'59.489"W | 53.70             | 175.747         | 0.46          | -0.03                | 166.70              |
| 4234.00 | 0.160           | 210.940     | 4232.16  | 51.84          | -53.78     | 3.82      | 1623339.20        | 335665.83          | 39°24'50.139"N | 80°49'59.491"W | 53.92             | 175.935         | 0.05          | -0.04                | -7.17               |
| 4323.00 | 0.150           | 225.530     | 4321.16  | 51.97          | -53.97     | 3.68      | 1623339.05        | 335665.64          | 39°24'50.137"N | 80°49'59.493"W | 54.09             | 176.104         | 0.05          | 0.01                 | 16.39               |
| 4413.00 | 0.470           | 249.540     | 4411.16  | 52.02          | -54.18     | 3.25      | 1623338.63        | 335665.43          | 39°24'50.135"N | 80°49'59.498"W | 54.28             | 176.572         | 0.38          | 0.36                 | 26.68               |
| 4502.00 | 0.430           | 248.510     | 4500.16  | 52.03          | -54.43     | 2.59      | 1623337.97        | 335665.18          | 39°24'50.132"N | 80°49'59.506"W | 54.49             | 177.273         | 0.05          | -0.04                | -1.16               |
| 4592.00 | 0.280           | 261.840     | 4590.16  | 52.00          | -54.59     | 2.06      | 1623337.44        | 335665.03          | 39°24'50.131"N | 80°49'59.513"W | 54.62             | 177.838         | 0.19          | -0.17                | 14.81               |
| 4681.00 | 0.310           | 228.080     | 4679.16  | 52.04          | -54.78     | 1.67      | 1623337.05        | 335664.84          | 39°24'50.129"N | 80°49'59.518"W | 54.80             | 178.258         | 0.20          | 0.03                 | -37.93              |

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# Actual Wellpath Report

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WV Department of  
Environmental Protection



## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (182 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 4771.00 | 0.170           | 270.310     | 4769.15  | 52.09          | -54.94     | 1.35      | 1623336.73        | 335664.67          | 39°24'50.127"N | 80°49'59.522"W | 54.96             | 178.591         | 0.24          | -0.16                | 46.92               |
| 4860.00 | 0.260           | 282.700     | 4858.15  | 51.93          | -54.89     | 1.02      | 1623336.40        | 335664.72          | 39°24'50.128"N | 80°49'59.526"W | 54.90             | 178.933         | 0.11          | 0.10                 | 13.92               |
| 4950.00 | 0.280           | 353.190     | 4948.15  | 51.61          | -54.63     | 0.80      | 1623336.18        | 335664.98          | 39°24'50.130"N | 80°49'59.529"W | 54.64             | 179.164         | 0.35          | 0.02                 | 78.32               |
| 5039.00 | 2.510           | 41.030      | 5037.12  | 50.45          | -52.94     | 2.05      | 1623337.43        | 335666.67          | 39°24'50.147"N | 80°49'59.514"W | 52.98             | 177.782         | 2.62          | 2.51                 | 53.75               |
| 5129.00 | 4.140           | 31.860      | 5126.97  | 47.49          | -48.70     | 5.06      | 1623340.44        | 335670.91          | 39°24'50.189"N | 80°49'59.476"W | 48.96             | 174.068         | 1.90          | 1.81                 | -10.19              |
| 5204.00 | 6.370           | 38.680      | 5201.65  | 43.66          | -43.15     | 9.09      | 1623344.47        | 335676.46          | 39°24'50.245"N | 80°49'59.426"W | 44.10             | 168.105         | 3.08          | 2.97                 | 9.09                |
| 5231.00 | 6.930           | 38.710      | 5228.47  | 42.03          | -40.71     | 11.04     | 1623346.42        | 335678.90          | 39°24'50.269"N | 80°49'59.401"W | 42.18             | 164.821         | 2.07          | 2.07                 | 0.11                |
| 5275.00 | 10.880          | 32.070      | 5271.93  | 38.10          | -35.12     | 14.91     | 1623350.29        | 335684.50          | 39°24'50.325"N | 80°49'59.353"W | 38.15             | 156.994         | 9.26          | 8.98                 | -15.09              |
| 5320.00 | 12.770          | 29.150      | 5315.97  | 32.23          | -27.17     | 19.59     | 1623354.97        | 335692.44          | 39°24'50.404"N | 80°49'59.295"W | 33.50             | 144.214         | 4.40          | 4.20                 | -6.49               |
| 5410.00 | 12.650          | 28.110      | 5403.77  | 19.15          | -9.79      | 29.08     | 1623364.46        | 335709.82          | 39°24'50.577"N | 80°49'59.177"W | 30.68             | 108.616         | 0.29          | -0.13                | -1.16               |
| 5499.00 | 12.600          | 28.710      | 5490.62  | 6.24           | 7.32       | 38.33     | 1623373.71        | 335726.92          | 39°24'50.748"N | 80°49'59.063"W | 39.02             | 79.195          | 0.16          | -0.06                | 0.67                |
| 5589.00 | 12.820          | 40.320      | 5578.42  | -5.19          | 23.54      | 49.51     | 1623384.89        | 335743.15          | 39°24'50.910"N | 80°49'58.923"W | 54.82             | 64.570          | 2.84          | 0.24                 | 12.90               |
| 5678.00 | 12.890          | 79.770      | 5665.36  | -8.40          | 32.85      | 65.70     | 1623401.08        | 335752.46          | 39°24'51.004"N | 80°49'58.719"W | 73.45             | 63.435          | 9.68          | 0.08                 | 44.33               |
| 5768.00 | 14.920          | 116.530     | 5752.88  | 1.73           | 29.45      | 85.98     | 1623421.36        | 335749.06          | 39°24'50.974"N | 80°49'58.460"W | 90.89             | 71.093          | 9.89          | 2.26                 | 40.84               |
| 5858.00 | 22.680          | 132.180     | 5838.07  | 25.54          | 12.59      | 109.26    | 1623444.63        | 335732.20          | 39°24'50.810"N | 80°49'58.160"W | 109.98            | 83.428          | 10.21         | 8.62                 | 17.39               |
| 5947.00 | 27.800          | 141.810     | 5918.58  | 60.47          | -15.28     | 134.83    | 1623470.21        | 335704.34          | 39°24'50.539"N | 80°49'57.829"W | 135.70            | 96.463          | 7.36          | 5.75                 | 10.82               |
| 6037.00 | 34.860          | 146.920     | 5995.42  | 105.53         | -53.38     | 161.89    | 1623497.26        | 335666.24          | 39°24'50.166"N | 80°49'57.477"W | 170.46            | 108.248         | 8.38          | 7.84                 | 5.68                |
| 6127.00 | 44.760          | 149.580     | 6064.48  | 161.89         | -102.38    | 192.05    | 1623527.42        | 335617.24          | 39°24'49.686"N | 80°49'57.084"W | 217.63            | 118.062         | 11.16         | 11.00                | 2.96                |
| 6217.00 | 53.710          | 152.260     | 6123.19  | 229.14         | -161.93    | 225.04    | 1623560.41        | 335557.69          | 39°24'49.103"N | 80°49'56.652"W | 277.25            | 125.737         | 10.20         | 9.94                 | 2.98                |
| 6306.00 | 63.390          | 155.020     | 6169.58  | 304.50         | -229.91    | 258.63    | 1623593.99        | 335489.71          | 39°24'48.430"N | 80°49'56.212"W | 346.05            | 131.637         | 11.19         | 10.88                | 3.10                |
| 6396.00 | 70.470          | 158.350     | 6204.83  | 387.10         | -305.92    | 291.31    | 1623626.68        | 335413.71          | 39°24'47.689"N | 80°49'55.781"W | 422.43            | 136.401         | 8.57          | 7.87                 | 3.70                |
| 6485.00 | 72.940          | 161.050     | 6232.77  | 471.59         | -385.16    | 320.61    | 1623655.97        | 335334.47          | 39°24'46.911"N | 80°49'55.393"W | 501.14            | 140.226         | 4.00          | 2.78                 | 3.03                |
| 6575.00 | 80.980          | 162.050     | 6253.06  | 559.16         | -468.27    | 348.32    | 1623683.69        | 335251.37          | 39°24'46.093"N | 80°49'55.024"W | 583.61            | 143.356         | 9.00          | 8.93                 | 1.11                |
| 6665.00 | 84.920          | 163.470     | 6264.10  | 648.36         | -553.56    | 374.79    | 1623710.15        | 335166.08          | 39°24'45.254"N | 80°49'54.671"W | 668.50            | 145.900         | 4.65          | 4.38                 | 1.58                |
| 6754.00 | 89.320          | 162.660     | 6268.57  | 737.10         | -638.57    | 400.67    | 1623736.03        | 335081.08          | 39°24'44.418"N | 80°49'54.325"W | 753.86            | 147.894         | 5.03          | 4.94                 | -0.91               |
| 6844.00 | 89.230          | 162.320     | 6269.71  | 827.00         | -724.39    | 427.75    | 1623763.11        | 334995.26          | 39°24'43.574"N | 80°49'53.964"W | 841.26            | 149.438         | 0.39          | -0.10                | -0.38               |
| 6933.00 | 89.350          | 158.920     | 6270.82  | 915.98         | -808.33    | 457.27    | 1623792.63        | 334911.32          | 39°24'42.749"N | 80°49'53.572"W | 928.71            | 150.503         | 3.82          | 0.13                 | -3.82               |
| 7023.00 | 89.320          | 158.390     | 6271.86  | 1005.95        | -892.15    | 490.03    | 1623825.38        | 334827.51          | 39°24'41.925"N | 80°49'53.138"W | 1017.87           | 151.221         | 0.59          | -0.03                | -0.59               |
| 7113.00 | 89.380          | 157.280     | 6272.88  | 1095.88        | -975.49    | 523.98    | 1623859.33        | 334744.17          | 39°24'41.106"N | 80°49'52.690"W | 1107.31           | 151.758         | 1.24          | 0.07                 | -1.23               |
| 7202.00 | 89.420          | 156.340     | 6273.81  | 1184.73        | -1057.30   | 559.03    | 1623894.38        | 334662.37          | 39°24'40.303"N | 80°49'52.228"W | 1195.99           | 152.133         | 1.06          | 0.04                 | -1.06               |

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# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'  
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Environmental Protection

## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (182 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 7292.00 | 89.510          | 155.640     | 6274.65  | 1274.51        | -1139.50   | 595.65    | 1623930.99        | 334580.17          | 39°24'39.496"N | 80°49'51.746"W | 1285.79           | 152.403         | 0.78          | 0.10                 | -0.78               |
| 7381.00 | 89.290          | 156.410     | 6275.59  | 1363.29        | -1220.82   | 631.81    | 1623967.15        | 334498.86          | 39°24'38.698"N | 80°49'51.270"W | 1374.62           | 152.637         | 0.90          | -0.25                | 0.87                |
| 7471.00 | 89.410          | 156.810     | 6276.61  | 1453.12        | -1303.42   | 667.53    | 1624002.88        | 334416.26          | 39°24'37.887"N | 80°49'50.800"W | 1464.41           | 152.881         | 0.46          | 0.13                 | 0.44                |
| 7560.00 | 89.510          | 157.400     | 6277.45  | 1542.01        | -1385.40   | 702.16    | 1624037.50        | 334334.28          | 39°24'37.082"N | 80°49'50.343"W | 1553.18           | 153.123         | 0.67          | 0.11                 | 0.66                |
| 7650.00 | 89.260          | 161.460     | 6278.41  | 1631.98        | -1469.64   | 733.77    | 1624069.11        | 334250.05          | 39°24'36.254"N | 80°49'49.924"W | 1642.64           | 153.468         | 4.52          | -0.28                | 4.51                |
| 7740.00 | 89.660          | 164.270     | 6279.26  | 1721.85        | -1555.64   | 760.28    | 1624095.62        | 334164.06          | 39°24'35.408"N | 80°49'49.570"W | 1731.48           | 153.954         | 3.15          | 0.44                 | 3.12                |
| 7829.00 | 89.690          | 163.280     | 6279.77  | 1810.66        | -1641.09   | 785.15    | 1624120.49        | 334078.61          | 39°24'34.567"N | 80°49'49.238"W | 1819.24           | 154.432         | 1.11          | 0.03                 | -1.11               |
| 7919.00 | 89.690          | 163.490     | 6280.25  | 1900.50        | -1727.33   | 810.88    | 1624146.22        | 333992.37          | 39°24'33.718"N | 80°49'48.894"W | 1908.19           | 154.853         | 0.23          | 0.00                 | 0.23                |
| 8008.00 | 90.030          | 160.520     | 6280.47  | 1989.43        | -1811.97   | 838.38    | 1624173.71        | 333907.74          | 39°24'32.886"N | 80°49'48.527"W | 1996.52           | 155.171         | 3.36          | 0.38                 | -3.34               |
| 8098.00 | 89.910          | 159.560     | 6280.52  | 2079.43        | -1896.56   | 869.10    | 1624204.43        | 333823.15          | 39°24'32.055"N | 80°49'48.120"W | 2086.21           | 155.380         | 1.07          | -0.13                | -1.07               |
| 8187.00 | 89.970          | 161.480     | 6280.61  | 2168.42        | -1980.46   | 898.78    | 1624234.11        | 333739.26          | 39°24'31.230"N | 80°49'47.726"W | 2174.86           | 155.590         | 2.16          | 0.07                 | 2.16                |
| 8277.00 | 90.090          | 162.990     | 6280.56  | 2258.35        | -2066.17   | 926.24    | 1624261.57        | 333653.56          | 39°24'30.387"N | 80°49'47.360"W | 2264.28           | 155.854         | 1.68          | 0.13                 | 1.68                |
| 8366.00 | 90.030          | 162.060     | 6280.47  | 2347.27        | -2151.06   | 952.96    | 1624288.29        | 333568.67          | 39°24'29.552"N | 80°49'47.004"W | 2352.70           | 156.106         | 1.05          | -0.07                | -1.04               |
| 8456.00 | 90.030          | 159.840     | 6280.42  | 2437.25        | -2236.12   | 982.33    | 1624317.66        | 333483.61          | 39°24'28.715"N | 80°49'46.613"W | 2442.38           | 156.284         | 2.47          | 0.00                 | -2.47               |
| 8545.00 | 89.940          | 158.060     | 6280.45  | 2526.23        | -2319.18   | 1014.30   | 1624349.63        | 333400.55          | 39°24'27.899"N | 80°49'46.191"W | 2531.29           | 156.378         | 2.00          | -0.10                | -2.00               |
| 8635.00 | 90.030          | 158.360     | 6280.47  | 2616.19        | -2402.75   | 1047.71   | 1624383.03        | 333316.99          | 39°24'27.078"N | 80°49'45.749"W | 2621.24           | 156.441         | 0.35          | 0.10                 | 0.33                |
| 8724.00 | 90.250          | 158.650     | 6280.25  | 2705.15        | -2485.56   | 1080.32   | 1624415.64        | 333234.18          | 39°24'26.265"N | 80°49'45.318"W | 2710.19           | 156.508         | 0.41          | 0.25                 | 0.33                |
| 8814.00 | 90.310          | 158.200     | 6279.81  | 2795.12        | -2569.25   | 1113.41   | 1624448.73        | 333150.50          | 39°24'25.442"N | 80°49'44.881"W | 2800.14           | 156.570         | 0.50          | 0.07                 | -0.50               |
| 8903.00 | 90.340          | 158.990     | 6279.31  | 2884.09        | -2652.11   | 1145.90   | 1624481.21        | 333067.64          | 39°24'24.628"N | 80°49'44.452"W | 2889.08           | 156.632         | 0.89          | 0.03                 | 0.89                |
| 8993.00 | 90.340          | 158.790     | 6278.77  | 2974.07        | -2736.07   | 1178.31   | 1624513.62        | 332983.69          | 39°24'23.803"N | 80°49'44.023"W | 2979.01           | 156.701         | 0.22          | 0.00                 | -0.22               |
| 9082.00 | 90.150          | 157.060     | 6278.39  | 3063.01        | -2818.54   | 1211.76   | 1624547.07        | 332901.22          | 39°24'22.993"N | 80°49'43.581"W | 3067.99           | 156.736         | 1.96          | -0.21                | -1.94               |
| 9172.00 | 90.370          | 157.030     | 6277.99  | 3152.89        | -2901.42   | 1246.86   | 1624582.17        | 332818.35          | 39°24'22.179"N | 80°49'43.119"W | 3157.98           | 156.745         | 0.25          | 0.24                 | -0.03               |
| 9261.00 | 90.280          | 160.590     | 6277.48  | 3241.85        | -2984.38   | 1279.02   | 1624614.33        | 332735.39          | 39°24'21.364"N | 80°49'42.693"W | 3246.91           | 156.801         | 4.00          | -0.10                | 4.00                |
| 9351.00 | 90.280          | 158.760     | 6277.04  | 3331.85        | -3068.77   | 1310.28   | 1624645.59        | 332651.00          | 39°24'20.535"N | 80°49'42.279"W | 3336.80           | 156.879         | 2.03          | 0.00                 | -2.03               |
| 9440.00 | 90.250          | 156.920     | 6276.63  | 3420.78        | -3151.20   | 1343.85   | 1624679.15        | 332568.59          | 39°24'19.725"N | 80°49'41.836"W | 3425.78           | 156.904         | 2.07          | -0.03                | -2.07               |
| 9530.00 | 89.940          | 157.510     | 6276.48  | 3510.67        | -3234.17   | 1378.70   | 1624714.01        | 332483.61          | 39°24'18.910"N | 80°49'41.376"W | 3515.78           | 156.912         | 0.74          | -0.34                | 0.66                |
| 9619.00 | 89.750          | 158.650     | 6276.72  | 3599.62        | -3316.74   | 1411.93   | 1624747.23        | 332403.05          | 39°24'18.099"N | 80°49'40.938"W | 3604.76           | 156.941         | 1.30          | -0.21                | 1.28                |
| 9709.00 | 89.940          | 160.700     | 6276.96  | 3689.61        | -3401.13   | 1443.19   | 1624778.49        | 332318.67          | 39°24'17.270"N | 80°49'40.524"W | 3694.65           | 157.007         | 2.29          | 0.21                 | 2.28                |
| 9798.00 | 89.970          | 161.580     | 6277.03  | 3778.60        | -3485.35   | 1471.96   | 1624807.26        | 332234.45          | 39°24'16.442"N | 80°49'40.141"W | 3783.43           | 157.104         | 0.99          | 0.03                 | 0.99                |
| 9888.00 | 90.090          | 160.570     | 6276.99  | 3868.58        | -3570.48   | 1501.14   | 1624836.44        | 332149.32          | 39°24'15.605"N | 80°49'39.753"W | 3873.21           | 157.197         | 1.13          | 0.13                 | -1.12               |

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# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'

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Environmental Protection



## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (182 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 9977.00  | 89.910          | 161.630     | 6276.99  | 3957.56        | -3654.68   | 1529.97   | 1624865.27        | 332065.13          | 39°24'14.777"N | 80°49'39.370"W | 3962.01           | 157.284         | 1.21          | -0.20                | 1.19                |
| 10067.00 | 90.250          | 162.320     | 6276.86  | 4047.51        | -3740.27   | 1557.82   | 1624893.12        | 331979.55          | 39°24'13.935"N | 80°49'38.999"W | 4051.71           | 157.388         | 0.85          | 0.38                 | 0.77                |
| 10157.00 | 90.090          | 162.170     | 6276.59  | 4137.44        | -3825.98   | 1585.27   | 1624920.56        | 331893.84          | 39°24'13.092"N | 80°49'38.634"W | 4141.40           | 157.494         | 0.24          | -0.18                | -0.17               |
| 10246.00 | 90.150          | 161.470     | 6276.41  | 4226.39        | -3910.53   | 1613.03   | 1624948.33        | 331809.29          | 39°24'12.260"N | 80°49'38.264"W | 4230.15           | 157.585         | 0.79          | 0.07                 | -0.79               |
| 10336.00 | 90.250          | 162.310     | 6276.09  | 4316.34        | -3996.08   | 1641.01   | 1624976.30        | 331723.75          | 39°24'11.419"N | 80°49'37.892"W | 4319.90           | 157.674         | 0.94          | 0.11                 | 0.93                |
| 10425.00 | 90.120          | 163.830     | 6275.81  | 4405.21        | -4081.21   | 1666.93   | 1625002.22        | 331638.62          | 39°24'10.581"N | 80°49'37.546"W | 4408.51           | 157.783         | 1.71          | -0.15                | 1.71                |
| 10515.00 | 90.220          | 164.740     | 6275.54  | 4494.96        | -4167.85   | 1691.30   | 1625026.59        | 331551.99          | 39°24'09.729"N | 80°49'37.219"W | 4497.94           | 157.913         | 1.02          | 0.11                 | 1.01                |
| 10604.00 | 90.090          | 164.870     | 6275.30  | 4583.64        | -4253.74   | 1714.63   | 1625049.92        | 331466.10          | 39°24'08.884"N | 80°49'36.905"W | 4586.31           | 158.046         | 0.21          | -0.15                | 0.15                |
| 10694.00 | 90.120          | 163.890     | 6275.13  | 4673.38        | -4340.41   | 1738.86   | 1625074.15        | 331379.43          | 39°24'08.030"N | 80°49'36.580"W | 4675.77           | 158.168         | 1.09          | 0.03                 | -1.09               |
| 10783.00 | 90.150          | 162.210     | 6274.92  | 4762.25        | -4425.54   | 1764.81   | 1625100.09        | 331294.31          | 39°24'07.193"N | 80°49'36.234"W | 4764.45           | 158.259         | 1.89          | 0.03                 | -1.89               |
| 10873.00 | 90.150          | 159.810     | 6274.69  | 4852.23        | -4510.64   | 1794.09   | 1625129.37        | 331209.22          | 39°24'06.356"N | 80°49'35.845"W | 4854.34           | 158.310         | 2.67          | 0.00                 | -2.67               |
| 10963.00 | 90.150          | 157.070     | 6274.45  | 4942.19        | -4594.33   | 1827.16   | 1625162.44        | 331125.53          | 39°24'05.534"N | 80°49'35.408"W | 4944.33           | 158.312         | 3.04          | 0.00                 | -3.04               |
| 11052.00 | 90.180          | 156.210     | 6274.20  | 5031.03        | -4676.04   | 1862.45   | 1625197.73        | 331043.83          | 39°24'04.732"N | 80°49'34.943"W | 5033.29           | 158.283         | 0.97          | 0.03                 | -0.97               |
| 11142.00 | 90.120          | 155.750     | 6273.96  | 5120.81        | -4758.24   | 1899.09   | 1625234.36        | 330961.63          | 39°24'03.925"N | 80°49'34.461"W | 5123.22           | 158.242         | 0.52          | -0.07                | -0.51               |
| 11232.00 | 90.090          | 153.380     | 6273.80  | 5210.40        | -4839.51   | 1937.74   | 1625273.01        | 330880.36          | 39°24'03.127"N | 80°49'33.953"W | 5213.03           | 158.179         | 2.63          | -0.03                | -2.63               |
| 11321.00 | 90.150          | 155.550     | 6273.61  | 5298.98        | -4919.82   | 1976.10   | 1625311.37        | 330800.06          | 39°24'02.339"N | 80°49'33.450"W | 5301.84           | 158.117         | 2.44          | 0.07                 | 2.44                |
| 11411.00 | 90.150          | 162.150     | 6273.37  | 5388.91        | -5003.71   | 2008.55   | 1625343.82        | 330716.18          | 39°24'01.515"N | 80°49'33.021"W | 5391.79           | 158.129         | 7.33          | 0.00                 | 7.33                |
| 11500.00 | 90.060          | 163.650     | 6273.21  | 5477.79        | -5088.77   | 2034.72   | 1625369.99        | 330631.12          | 39°24'00.678"N | 80°49'32.671"W | 5480.48           | 158.206         | 1.69          | -0.10                | 1.69                |
| 11590.00 | 89.820          | 162.170     | 6273.30  | 5567.68        | -5174.79   | 2061.17   | 1625396.44        | 330545.10          | 39°23'59.832"N | 80°49'32.318"W | 5570.18           | 158.282         | 1.67          | -0.27                | -1.64               |
| 11679.00 | 89.910          | 162.690     | 6273.51  | 5656.60        | -5259.64   | 2088.04   | 1625423.30        | 330460.26          | 39°23'58.997"N | 80°49'31.960"W | 5658.95           | 158.347         | 0.59          | 0.10                 | 0.58                |
| 11769.00 | 89.880          | 163.320     | 6273.68  | 5746.47        | -5345.71   | 2114.34   | 1625449.61        | 330374.19          | 39°23'58.150"N | 80°49'31.609"W | 5748.66           | 158.420         | 0.70          | -0.03                | 0.70                |
| 11859.00 | 89.910          | 159.340     | 6273.84  | 5836.43        | -5430.96   | 2143.15   | 1625478.41        | 330288.95          | 39°23'57.312"N | 80°49'31.226"W | 5838.52           | 158.465         | 4.42          | 0.03                 | -4.42               |
| 11948.00 | 89.850          | 157.420     | 6274.03  | 5925.39        | -5513.69   | 2175.94   | 1625511.20        | 330206.22          | 39°23'56.499"N | 80°49'30.793"W | 5927.52           | 158.464         | 2.16          | -0.07                | -2.16               |
| 12038.00 | 90.060          | 158.640     | 6274.10  | 6015.33        | -5597.15   | 2209.61   | 1625544.87        | 330122.76          | 39°23'55.679"N | 80°49'30.348"W | 6017.51           | 158.457         | 1.38          | 0.23                 | 1.36                |
| 12127.00 | 90.030          | 159.790     | 6274.03  | 6104.32        | -5680.36   | 2241.19   | 1625576.45        | 330039.56          | 39°23'54.862"N | 80°49'29.930"W | 6106.51           | 158.468         | 1.29          | -0.03                | 1.29                |
| 12217.00 | 90.090          | 157.220     | 6273.94  | 6194.29        | -5764.09   | 2274.16   | 1625609.42        | 329955.83          | 39°23'54.039"N | 80°49'29.495"W | 6196.50           | 158.469         | 2.86          | 0.07                 | -2.86               |
| 12307.00 | 90.120          | 159.500     | 6273.77  | 6284.24        | -5847.74   | 2307.35   | 1625642.61        | 329872.18          | 39°23'53.217"N | 80°49'29.056"W | 6286.49           | 158.467         | 2.53          | 0.03                 | 2.53                |
| 12396.00 | 90.090          | 160.060     | 6273.61  | 6373.24        | -5931.26   | 2338.11   | 1625673.37        | 329788.67          | 39°23'52.396"N | 80°49'28.649"W | 6375.47           | 158.486         | 0.63          | -0.03                | 0.63                |
| 12486.00 | 90.120          | 158.620     | 6273.44  | 6463.23        | -6015.47   | 2369.87   | 1625705.12        | 329704.47          | 39°23'51.569"N | 80°49'28.228"W | 6465.46           | 158.497         | 1.60          | 0.03                 | -1.60               |
| 12576.00 | 90.180          | 158.390     | 6273.21  | 6553.20        | -6099.21   | 2402.84   | 1625738.09        | 329620.73          | 39°23'50.746"N | 80°49'27.793"W | 6555.46           | 158.498         | 0.26          | 0.07                 | -0.26               |

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# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (182 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 12665.00 | 89.880          | 159.170     | 6273.16  | 6642.18        | -6182.17   | 2435.06   | 1625770.30        | 329537.77          | 39°23'49.931"N | 80°49'27.367"W | 6644.45           | 158.501         | 0.94          | -0.34                | 0.88                |
| 12755.00 | 89.850          | 158.970     | 6273.37  | 6732.17        | -6266.23   | 2467.21   | 1625802.45        | 329453.72          | 39°23'49.105"N | 80°49'26.942"W | 6734.45           | 158.509         | 0.22          | -0.03                | -0.22               |
| 12844.00 | 89.940          | 161.620     | 6273.54  | 6821.16        | -6350.02   | 2497.21   | 1625832.46        | 329369.94          | 39°23'48.281"N | 80°49'26.544"W | 6823.40           | 158.532         | 2.98          | 0.10                 | 2.98                |
| 12934.00 | 89.850          | 160.840     | 6273.70  | 6911.14        | -6435.23   | 2526.17   | 1625861.41        | 329284.73          | 39°23'47.443"N | 80°49'26.159"W | 6913.30           | 158.567         | 0.87          | -0.10                | -0.87               |
| 13023.00 | 89.940          | 159.960     | 6273.86  | 7000.13        | -6519.07   | 2556.03   | 1625891.27        | 329200.89          | 39°23'46.619"N | 80°49'25.763"W | 7002.25           | 158.591         | 0.99          | 0.10                 | -0.99               |
| 13113.00 | 89.970          | 161.130     | 6273.94  | 7090.13        | -6603.93   | 2586.00   | 1625921.24        | 329116.04          | 39°23'45.785"N | 80°49'25.365"W | 7092.20           | 158.615         | 1.30          | 0.03                 | 1.30                |
| 13202.00 | 89.820          | 162.340     | 6274.10  | 7179.09        | -6688.44   | 2613.90   | 1625949.13        | 329031.53          | 39°23'44.954"N | 80°49'24.994"W | 7181.07           | 158.654         | 1.37          | -0.17                | 1.36                |
| 13292.00 | 89.970          | 162.120     | 6274.26  | 7269.02        | -6774.15   | 2641.36   | 1625976.60        | 328945.83          | 39°23'44.111"N | 80°49'24.628"W | 7270.89           | 158.698         | 0.30          | 0.17                 | -0.24               |
| 13381.00 | 90.060          | 162.520     | 6274.24  | 7357.94        | -6858.95   | 2668.39   | 1626003.63        | 328861.04          | 39°23'43.277"N | 80°49'24.268"W | 7359.72           | 158.742         | 0.46          | 0.10                 | 0.45                |
| 13471.00 | 90.180          | 163.390     | 6274.05  | 7447.82        | -6944.99   | 2694.77   | 1626030.01        | 328775.00          | 39°23'42.430"N | 80°49'23.916"W | 7449.48           | 158.793         | 0.98          | 0.13                 | 0.97                |
| 13561.00 | 90.120          | 161.010     | 6273.82  | 7537.75        | -7030.68   | 2722.28   | 1626057.52        | 328689.32          | 39°23'41.587"N | 80°49'23.549"W | 7539.31           | 158.834         | 2.65          | -0.07                | -2.64               |
| 13651.00 | 90.220          | 158.680     | 6273.55  | 7627.74        | -7115.16   | 2753.29   | 1626088.52        | 328604.84          | 39°23'40.757"N | 80°49'23.139"W | 7629.29           | 158.845         | 2.59          | 0.11                 | -2.59               |
| 13740.00 | 90.180          | 156.560     | 6273.24  | 7716.66        | -7197.45   | 2787.18   | 1626122.40        | 328522.55          | 39°23'39.949"N | 80°49'22.692"W | 7718.27           | 158.831         | 2.38          | -0.04                | -2.38               |
| 13829.00 | 90.180          | 155.890     | 6272.96  | 7805.47        | -7278.90   | 2823.06   | 1626158.28        | 328441.11          | 39°23'39.149"N | 80°49'22.219"W | 7807.18           | 158.802         | 0.75          | 0.00                 | -0.75               |
| 13919.00 | 90.150          | 158.940     | 6272.70  | 7895.36        | -7361.98   | 2857.62   | 1626192.84        | 328358.03          | 39°23'38.333"N | 80°49'21.764"W | 7897.14           | 158.786         | 3.39          | -0.03                | 3.39                |
| 14009.00 | 90.220          | 162.810     | 6272.41  | 7985.34        | -7447.00   | 2887.10   | 1626222.32        | 328273.01          | 39°23'37.497"N | 80°49'21.372"W | 7987.06           | 158.809         | 4.30          | 0.08                 | 4.30                |
| 14098.00 | 90.180          | 164.710     | 6272.10  | 8074.14        | -7532.44   | 2911.99   | 1626247.21        | 328187.58          | 39°23'36.656"N | 80°49'21.039"W | 8075.73           | 158.864         | 2.14          | -0.04                | 2.13                |
| 14188.00 | 90.120          | 161.450     | 6271.86  | 8164.00        | -7618.54   | 2938.18   | 1626273.40        | 328101.49          | 39°23'35.809"N | 80°49'20.690"W | 8165.47           | 158.910         | 3.62          | -0.07                | -3.62               |
| 14277.00 | 90.220          | 159.250     | 6271.60  | 8252.99        | -7702.35   | 2968.10   | 1626303.32        | 328017.68          | 39°23'34.985"N | 80°49'20.293"W | 8254.44           | 158.926         | 2.47          | 0.11                 | -2.47               |
| 14367.00 | 90.180          | 158.180     | 6271.28  | 8342.97        | -7786.21   | 3000.77   | 1626335.99        | 327933.83          | 39°23'34.161"N | 80°49'19.861"W | 8344.44           | 158.924         | 1.19          | -0.04                | -1.19               |
| 14457.00 | 90.150          | 158.760     | 6271.02  | 8432.93        | -7869.93   | 3033.80   | 1626369.02        | 327850.11          | 39°23'33.339"N | 80°49'19.425"W | 8434.44           | 158.919         | 0.65          | -0.03                | 0.64                |
| 14546.00 | 90.030          | 159.880     | 6270.88  | 8521.93        | -7953.19   | 3065.23   | 1626400.44        | 327766.85          | 39°23'32.521"N | 80°49'19.009"W | 8523.43           | 158.923         | 1.27          | -0.13                | 1.26                |
| 14636.00 | 90.180          | 159.240     | 6270.72  | 8611.92        | -8037.52   | 3096.66   | 1626431.87        | 327682.52          | 39°23'31.692"N | 80°49'18.593"W | 8613.43           | 158.930         | 0.73          | 0.17                 | -0.71               |
| 14726.00 | 90.220          | 159.040     | 6270.41  | 8701.91        | -8121.62   | 3128.71   | 1626463.92        | 327598.43          | 39°23'30.865"N | 80°49'18.169"W | 8703.42           | 158.932         | 0.23          | 0.04                 | -0.22               |
| 14815.00 | 90.180          | 158.000     | 6270.10  | 8790.88        | -8204.44   | 3161.30   | 1626496.50        | 327515.62          | 39°23'30.052"N | 80°49'17.738"W | 8792.42           | 158.928         | 1.17          | -0.04                | -1.17               |
| 14905.00 | 90.120          | 158.250     | 6269.86  | 8880.83        | -8287.96   | 3194.83   | 1626530.04        | 327432.10          | 39°23'29.231"N | 80°49'17.295"W | 8882.41           | 158.919         | 0.29          | -0.07                | 0.28                |
| 14995.00 | 90.280          | 157.630     | 6269.55  | 8970.77        | -8371.37   | 3228.63   | 1626563.83        | 327348.69          | 39°23'28.412"N | 80°49'16.849"W | 8972.40           | 158.910         | 0.71          | 0.18                 | -0.69               |
| 15084.00 | 90.120          | 158.780     | 6269.23  | 9059.73        | -8454.01   | 3261.67   | 1626596.88        | 327266.06          | 39°23'27.600"N | 80°49'16.413"W | 9061.39           | 158.903         | 1.30          | -0.18                | 1.29                |
| 15174.00 | 90.120          | 158.010     | 6269.05  | 9149.69        | -8537.68   | 3294.81   | 1626630.01        | 327182.39          | 39°23'26.778"N | 80°49'15.975"W | 9151.38           | 158.898         | 0.86          | 0.00                 | -0.86               |
| 15263.00 | 90.250          | 157.410     | 6268.76  | 9238.62        | -8620.03   | 3328.57   | 1626663.77        | 327100.05          | 39°23'25.969"N | 80°49'15.530"W | 9240.36           | 158.886         | 0.69          | 0.15                 | -0.67               |

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# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'  
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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (182 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 15277.00 | 90.220          | 157.350     | 6268.70  | 9252.60        | -8632.96   | 3333.95   | 1626669.15        | 327087.12          | 39°23'25.842"N | 80°49'15.459"W | 9254.36           | 158.884         | 0.48          | -0.21                | -0.43               |
| 15301.00 | 90.220          | 157.350     | 6268.61  | 9276.58        | -8655.10   | 3343.20   | 1626678.39        | 327064.98          | 39°23'25.624"N | 80°49'15.337"W | 9278.35           | 158.880         | 0.00          | 0.00                 | 0.00                |

## TARGETS

| Name                | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude      | Shape |
|---------------------|---------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| SHR-3J-HS BHL Rev-1 |         | 6252.89  | -8659.14   | 3331.07   | 1626666.27        | 327060.94          | 39°23'25.583"N | 80°49'15.491"W | point |
| SHR-3J-HS LP Rev-1  |         | 6268.00  | -524.99    | 370.48    | 1623705.84        | 335194.65          | 39°24'45.536"N | 80°49'54.731"W | point |

## WELLPATH COMPOSITION - Ref Wellbore: SHR-3J-HS AWB Ref Wellpath: SHR-3J-HS AWP Proj: 15301'

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model           | Log Name/Comment                               | Wellbore      |
|---------------|-------------|--|--|---------------|
| 18.50         | 2118.50     | Generic gyro - northseeking (Standard) | 01_MS Gyro <12-1/4"> (100'-2100')              | SHR-3J-HS AWB |
| 2118.50       | 5129.00     | NaviTrak (MagCarr)                     | 02_BHI MWD <8-3/4"> (2118.5')(2217'-5129')     | SHR-3J-HS AWB |
| 5129.00       | 15277.00    | NaviTrak (AT Curve Short Spaced)       | 03_BHI AT Curve <8-3/4"> (5129')(5204'-15277') | SHR-3J-HS AWB |
| 15277.00      | 15301.00    | Blind Drilling (std)                   | Projection to bit                              | SHR-3J-HS AWB |

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# Actual Wellpath Report

SHR-3J-HS AWP Proj: 15301'  
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## REFERENCE WELLPATH IDENTIFICATION

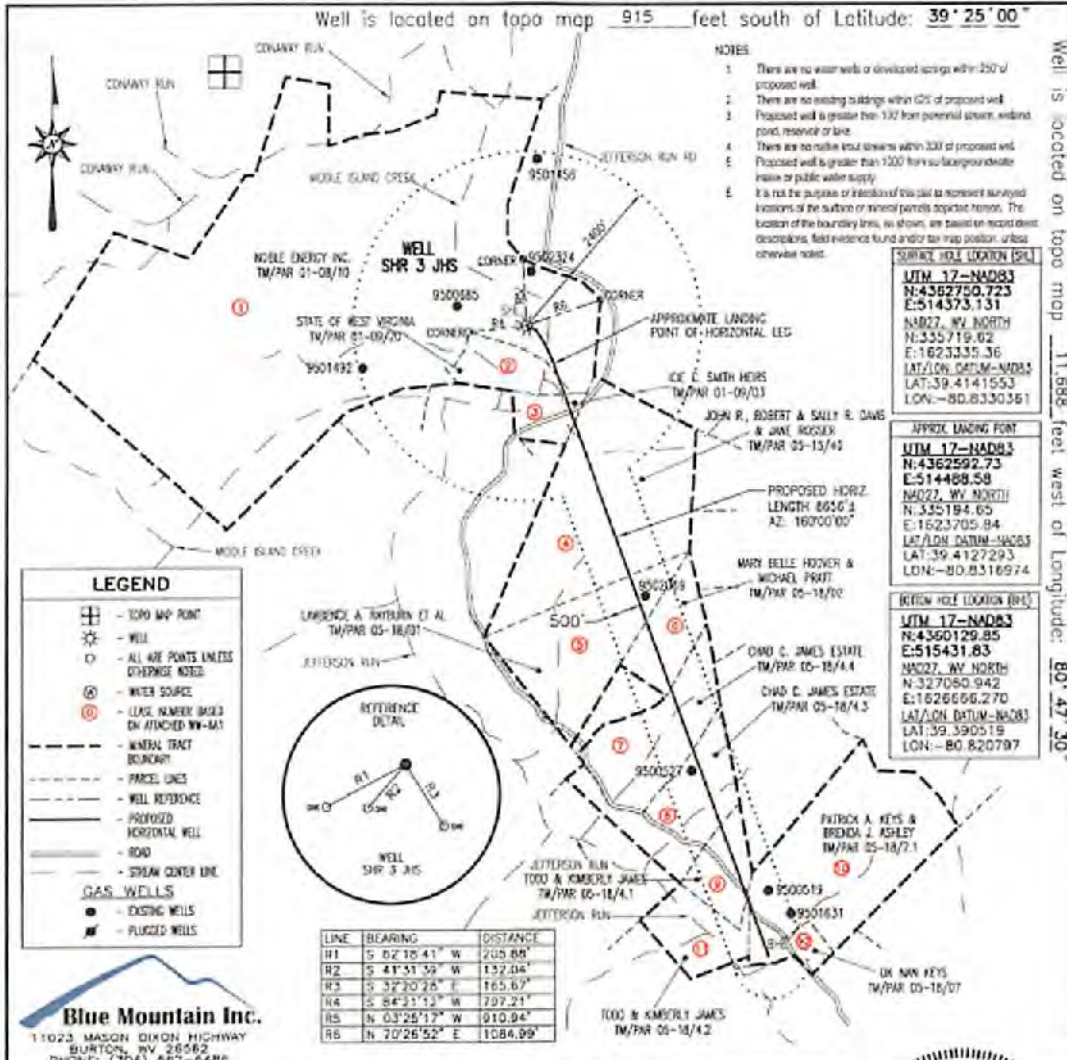
|          |                  |          |               |
|----------|------------------|----------|---------------|
| Operator | NOBLE ENERGY     | Slot     | Slot J        |
| Area     | Tyler County, WV | Well     | SHR-3J-HS     |
| Field    | Tyler            | Wellbore | SHR-3J-HS AWB |
| Facility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

## COMMENTS

### Wellpath general comments

API: 47-095-02197-0000  
BHI Job #: 7024874  
Rig: Precision 542  
Duration: 2/12/2015-2/23/2015  
MS Gyro <12-1/4"> (100'-2100')  
BHI MWD <8-3/4"> (2118.5')(2217'-5129')  
BHI AT Curve <8-3/4"> (5129')(5204'-15277')  
Projected MD at TD: 15301'

47-095 - 02197 P



FILE #: SHR 3 JHS  
DRAWING #: SHR 3 JHS  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *George D. Six*  
R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: JUNE 10, 2014  
OPERATOR'S WELL #: SHR 3 JHS  
API WELL #: 47 95  
STATE COUNTY PERMIT

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

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WV Department of Environmental Protection

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: \_\_\_\_\_  
COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: SHIRLEY, WV 7.5'  
SURFACE OWNER: NOBLE ENERGY INC. ACREAGE: \_\_\_\_\_  
OIL & GAS ROYALTY OWNER: SEE ATTACHED NW-6A1 ACREAGE: 1057.941±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: BURKETT ESTIMATED DEPTH: TVD: 6,275± TMD: 15,331±  
WELL OPERATOR NOBLE ENERGY, INC. DESIGNATED AGENT STEVEN M. GREEN  
Address 333 TECHNOLOGY DRIVE, SUITE 116 Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590  
City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

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SHR3 J

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit

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Environmental Protection

- WW-4B
- WW-4B signed by inspector
- WW-4A
- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

09/10/2021





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

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**Plugging H6A Horizontal Well Work Permit (API: 47-095-02197)**

1 message

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

Wed, Sep 8, 2021 at 2:30 PM

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

I have attached a copy of the newly issued well [permit](#) number, “**SHR3JHS**”, API: (**47-095-02197**). 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

 **47-095-02197 - Copy.pdf**  
2721K

**09/10/2021**