



---

west virginia department of environmental protection

---

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)

Monday, February 7, 2022  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359  
SPRING, TX 773914954

Re: Permit Modification Approval for CHARLES JAMISON MSH 810H  
47-051-02427-00-00

**Updated Coal Seem Depth**

SWN PRODUCTION COMPANY, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: CHARLES JAMISON MSH 810H  
Farm Name: CHARLES AND JEAN JAMISON  
U.S. WELL NUMBER: 47-051-02427-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 02/07/2022

Promoting a healthy environment.

02/11/2022

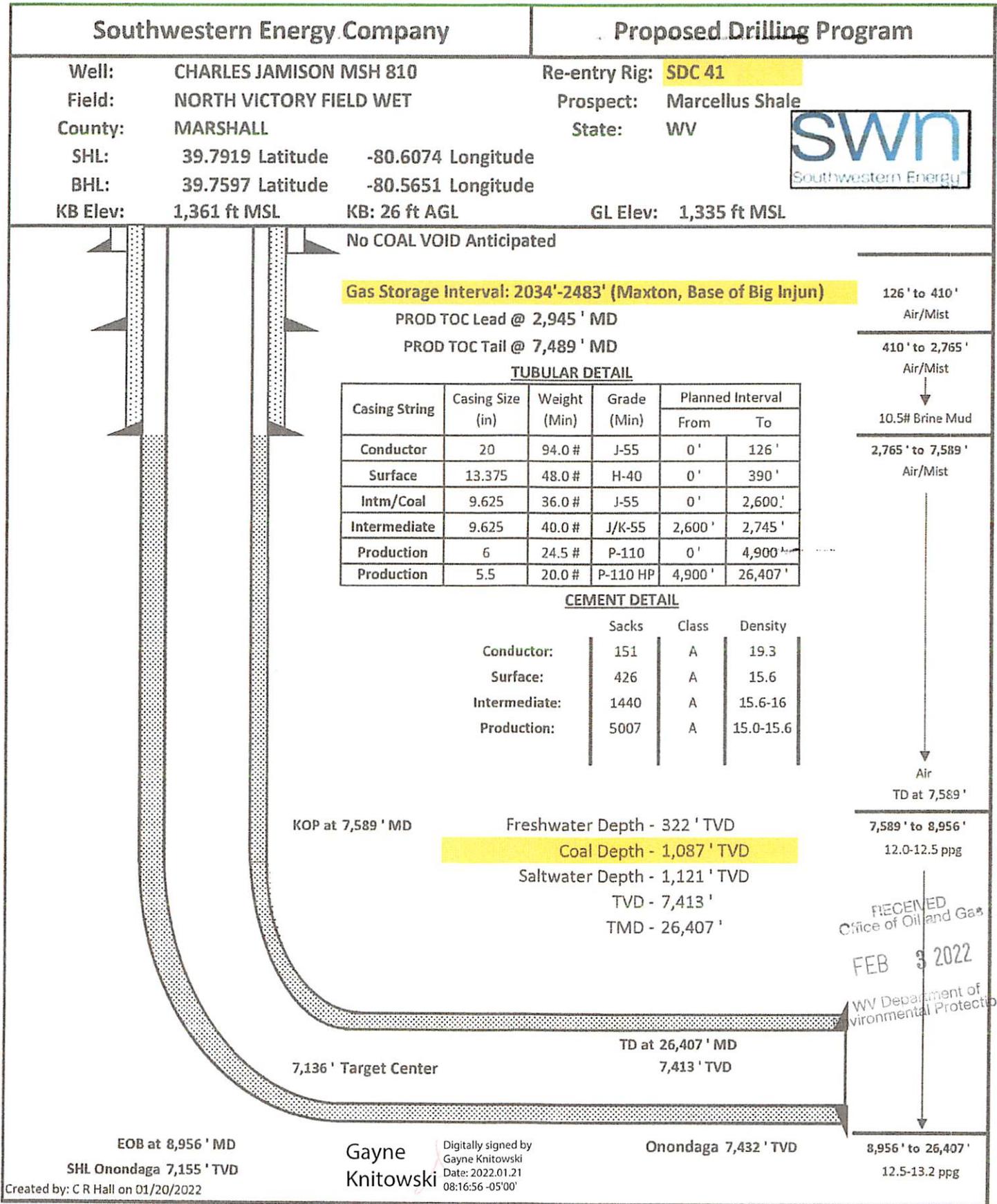
WW-6B  
(04/15)

API NO. 47-051 -  
OPERATOR WELL NO. Charles Jamison MSH 810H  
Well Pad Name: Charles Jamison MSH

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: SWN Production Co., LLC 494512924 051-Marshall 7-Liberty 278-Cameron  
Operator ID County District Quadrangle
- 2) Operator's Well Number: Charles Jamison MSH 810H Well Pad Name: Charles Jamison MSH
- 3) Farm Name/Surface Owner: Charles & Jean Jamison Public Road Access: Grapevine Ridge Road
- 4) Elevation, current ground: 1335' Elevation, proposed post-construction: 1335'
- 5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal
- 6) Existing Pad: Yes or No Yes Digitally signed by Gayne Knitowski  
Date: 2022.01.21 08:16:33 -05'00'
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 7400', Target Base TVD- 7447', Anticipated Thickness- 47', Associated Pressure- 4841'
- 8) Proposed Total Vertical Depth: 7431'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 29568'
- 11) Proposed Horizontal Leg Length: 20,882.23'
- 12) Approximate Fresh Water Strata Depths: 322'
- 13) Method to Determine Fresh Water Depths: Salinity Calculations from Charles Jamison MSH 206H logs (API 47-051-02295)
- 14) Approximate Saltwater Depths: 1121' Salinity Profile
- 15) Approximate Coal Seam Depths: 1087'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No \_\_\_\_\_
- (a) If Yes, provide Mine Info: Name: McElroy Mine/Marshall County Mine  
Depth: 1060'  
Seam: Pittsburgh  
Owner: Murray Energy Corporation

RECEIVED  
Office of Oil and Gas  
FEB 3 2022  
WV Department of  
Environmental Protection



**Southwestern Energy Company**

**Proposed Drilling Program**

Well: CHARLES JAMISON MSH 810 Re-entry Rig: SDC 41  
 Field: NORTH VICTORY FIELD WET Prospect: Marcellus Shale  
 County: MARSHALL State: WV  
 SHL: 39.7919 Latitude -80.6074 Longitude  
 BHL: 39.7597 Latitude -80.5651 Longitude  
 KB Elev: 1,361 ft MSL KB: 26 ft AGL GL Elev: 1,335 ft MSL



No COAL VOID Anticipated

Gas Storage Interval: 2034'-2483' (Maxton, Base of Big Injun)

PROD TOC Lead @ 2,945' MD

PROD TOC Tail @ 7,489' MD

**TUBULAR DETAIL**

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	126'
Surface	13.375	48.0 #	H-40	0'	390'
Intm/Coal	9.625	36.0 #	J-55	0'	2,600'
Intermediate	9.625	40.0 #	J/K-55	2,600'	2,745'
Production	6	24.5 #	P-110	0'	4,900'
Production	5.5	20.0 #	P-110 HP	4,900'	26,407'

**CEMENT DETAIL**

	Sacks	Class	Density
Conductor:	151	A	19.3
Surface:	426	A	15.6
Intermediate:	1440	A	15.6-16
Production:	5007	A	15.0-15.6

126' to 410' Air/Mist

410' to 2,765' Air/Mist

10.5# Brine Mud

2,765' to 7,589' Air/Mist

Air TD at 7,589'

7,589' to 8,956' 12.0-12.5 ppg

RECEIVED  
Office of Oil and Gas  
FEB 3 2022  
WV Department of Environmental Protection

KOP at 7,589' MD

Freshwater Depth - 322' TVD

Coal Depth - 1,087' TVD

Saltwater Depth - 1,121' TVD

TVD - 7,413'

TMD - 26,407'

TD at 26,407' MD

7,413' TVD

7,136' Target Center

EOB at 8,956' MD

SHL Onondaga 7,155' TVD

Created by: C R Hall on 01/20/2022

Gayne Knitowski

Digitally signed by Gayne Knitowski  
Date: 2022.01.21 08:16:56 -05'00'

Onondaga 7,432' TVD

8,956' to 26,407'

12.5-13.2 ppg

February 2, 2022

PAID ONLINE  
\$15000

Mr. Charles Brewer  
Office of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, WV 25304

RE: Proposed Expedited Modification:

Charles Jamison MSH 410H - 51-02425  
Charles Jamison MSH 610H - 51-02426  
Charles Jamison MSH 810H - 51-02427

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. There was a typo on the coal depth. This well is situated on the Jamison's property, in Liberty District, Marshall County, West Virginia.

Enclosed you will find:

- 6B
- Updated WBD

If you have any questions or desire additional information, please me at 304-884-1613

Thank you.

Sincerely,



Brittany Woody  
Senior Regulatory Analyst  
Southwestern Energy Production Company, LLC

RECEIVED  
Office of Oil and Gas  
FEB 3 2022  
WV Department of  
Environmental Protection

$\frac{R^2}{A} \rightarrow V^+$



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

**Expedited Modification Horizontal H6A Well Work Permit API: 47-051-02425, 02426, 02427)**

1 message

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

Tue, Feb 8, 2022 at 7:57 AM

To: Brittany Woody <Brittany\_Woody@swn.com>, liz\_gee@swn.com, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>, Eric Buzzard <ebuzzard@marshallcountywv.org>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

- 47-051-02425 - CHARLES JAMISON MSH 410H**
- 47-051-02426 - CHARLES JAMISON MSH 610H**
- 47-051-02427 - CHARLES JAMISON MSH 810H**

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)

<47-085-10414 - Copy.pdf><47-085-10415 - Copy.pdf><47-085-10417 - Copy.pdf>

**3 attachments**

-  **47-051-02425 - mod.pdf**  
1007K
-  **47-051-02427 - mod.pdf**  
1009K
-  **47-051-02426 - mod.pdf**  
1002K

02/11/2022