

west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

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 610H 47-051-02426-00-00

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 Chie

Operator's Well Number:CHARLES JAMISON MSH 610HFarm Name:CHARLES AND JEAN JAMISONU.S. WELL NUMBER:47-051-02426-00-00Horizontal 6ANew DrillDate Modification Issued:02/07/2022

Promoting a healthy environment.

05102426 APINO. 4 OPERATOR WELL NO. Charles Jamison MSH 610H Well Pad Name: Charles Jamison MSH

WW-6B (04/15)

| 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-Marshal 7-Liberty 278-Cameron |
| 2) Operator's Well Number: Charles Jamison MSH 610H Well Pad Name: Charles Jamison MSH |
| 3) Farm Name/Surface Owner: Charles & Jean Jamison Public Road Access: Grapevine Ridge Road |
| 4) Elevation, current ground: <u>1335'</u> Elevation, proposed post-construction: <u>1335'</u> |
| 5) Well Type (a) Gas <u>x</u> Oil Underground Storage |
| Other Deep |
| Horizontal X Gayne Digitally signed by Gayne Knitowski |
| 6) Existing Pad: Yes or No Yes Knitowski ^{Date: 2022.01.21} |
| 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-44 |
| 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' |

Salinity Calculations from Charles Jamison MSH 206H logs (API 47-051-02295) 13) Method to Determine Fresh Water Depths:

Murray Energy Corporation

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.

1060'

Pittsburgh

17) Does Proposed well location contain coal seams Yes X No directly overlying or adjacent to an active mine? McElroy Mine/Marshall County Mine

Seam:

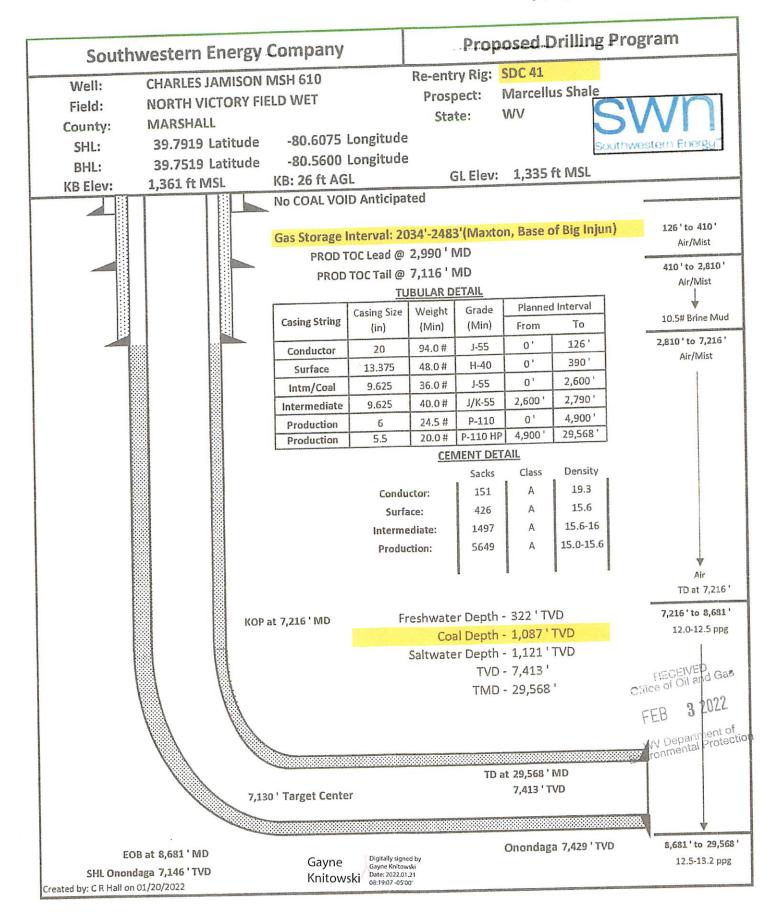
Owner:

(a) If Yes, provide Mine Info: Name: Depth: FIECEIVED 3 2.02 FFR

artment of WE Benarment or Environmental Protection



4705102426



02/11/2022



February 2, 2022

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

RE: Proposed <u>Expedited Modification</u>: Charles Jamison M Charles Jamison M

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,

Buttany Modely

Brittany Woody Senior Regulatory Analyst Southwestern Energy Production Company, LLC

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SWN Production Company, LLC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

PAID ONLINE \$ 15000

The Righ people of the Cash flow from our underlying Assets, will create Value+®



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

02/11/2022

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.

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47-051-02425 - CHARLES JAMISON MSH 410H
47-051-02426 - CHARLES JAMISON MSH 610H
47-051-02427 - CHARLES JAMISON MSH 810H
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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 <47-085-10414 - Copy.pdf><47-085-10415 - Copy.pdf><47-085-10417 - Copy.pdf>

3 attachments

- 47-051-02425 mod.pdf 7-1007K
- 47-051-02427 mod.pdf 1009K
- 47-051-02426 mod.pdf 7-1002K