



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, January 9, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

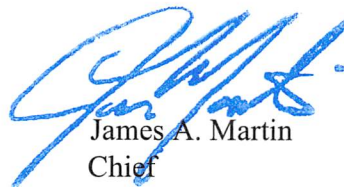
Re: Permit Modification Approval for ROTH 8H
47-069-00348-00-00

Freshwater Casing Depth Shortened, Surface Owner Re-Notice

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: ROTH 8H
Farm Name: ROTH FARMS, LLC
U.S. WELL NUMBER: 47-069-00348-00-00
Horizontal 6A New Drill
Date Modification Issued: 01/09/2023

Promoting a healthy environment.

01/13/2023

Ch# 1071024
5000'

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 069-Ohio 005-Rich 641-Tiltonsville
Operator ID County District Quadrangle

2) Operator's Well Number: Roth OHI 8H Well Pad Name: Roth OHI

3) Farm Name/Surface Owner: Roth Farms, LLC Public Road Access: Clearview Avenue

4) Elevation, current ground: 1004.0 Elevation, proposed post-construction: 1010'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

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- 5758', Target Base TVD- 5813', Anticipated Thickness- 55', Associated Pressure- 3778

8) Proposed Total Vertical Depth: 5802'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23613'

11) Proposed Horizontal Leg Length: 17,413.79

12) Approximate Fresh Water Strata Depths: 422'

13) Method to Determine Fresh Water Depths: Nearby well 47-069-00012

14) Approximate Saltwater Depths: 1119' reported in nearby wells

15) Approximate Coal Seam Depths: 170'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 200'

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: Valley Camp NO 1
Depth: 170 & 811'
Seam: Pittsburgh
Owner: Valley Camp Coal

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Environmental Protection

Strader Gower
12/12/2022

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	467'	467'	585 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1606'	1606'	634 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	23613'	23613'	Tail 4002sx/ 100' Inside Intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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12/12/2022

Southwestern Energy Company

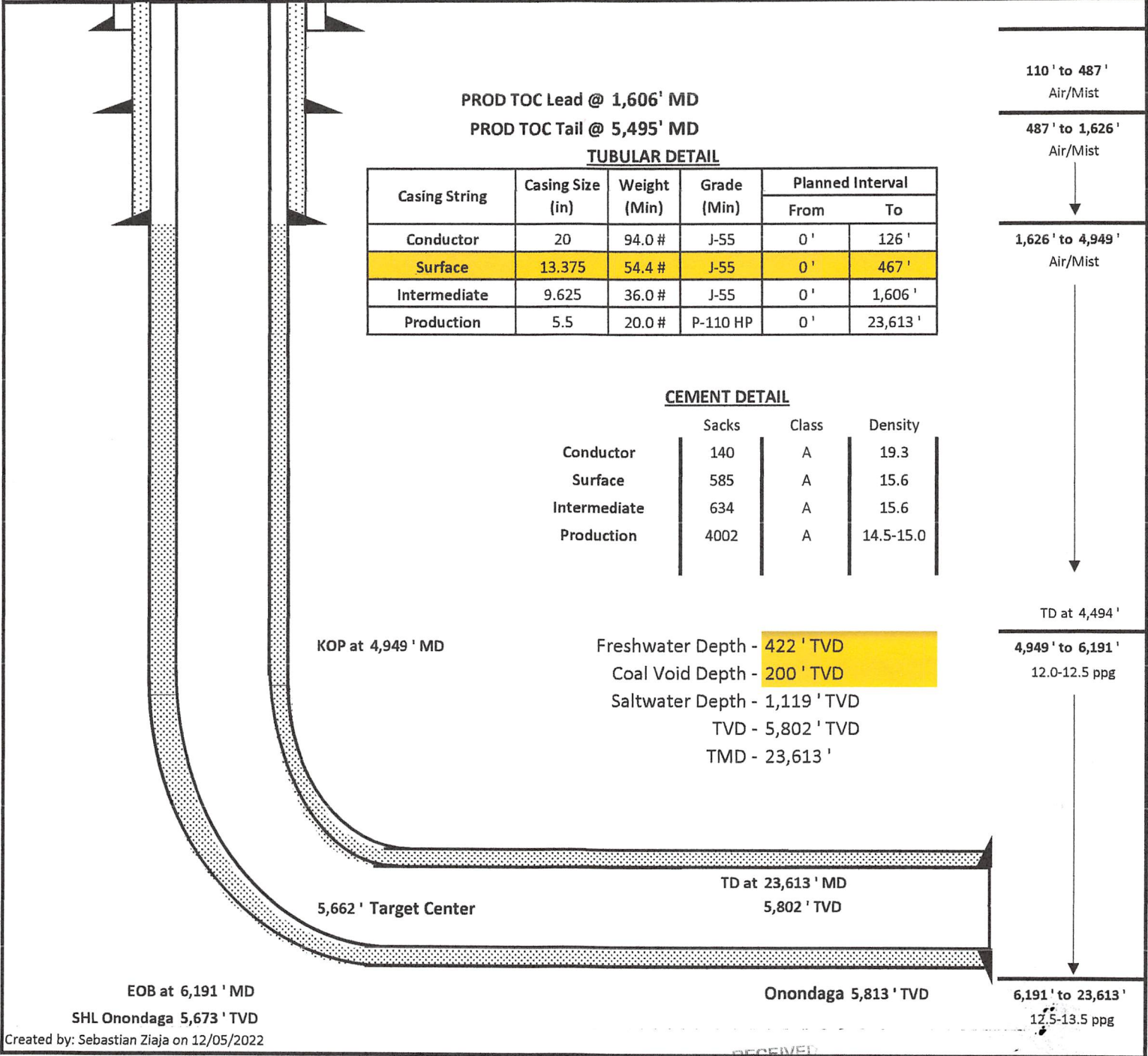
Proposed Drilling Program

Well: ROTH OHI 8
 Field: PANHANDLE FIELD WET
 County: OHIO
 SHL: 40.1511 Latitude -80.6869 Longitude
 BHL: 40.1066 Latitude -80.6626 Longitude
 KB Elev: 1,030 ft MSL KB: 26 ft AGL

Re-entry Rig: SDC 40
 Prospect: Marcellus Shale
 State: WV



GL Elev: 1,004 ft MSL 12/5/2022



Created by: Sebastian Ziaja on 12/05/2022

Strader Gower
12/12/2022

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 DEC 21 2022
 WV Department of
 Environmental Protection

01/13/2023

ORIGIN ID:MGWA (304) 884-1610
BRITTANY WOODY
SOUTHWESTERN ENERGY COMPANY
1300 FORT PIERPOINT DR
SUITE 201
MORGANTOWN, WV 26508
UNITED STATES US

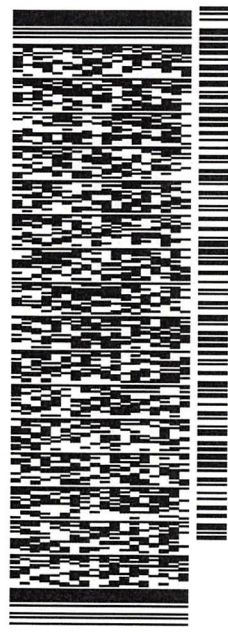
SHIP DATE: 04JAN23
ACTWTG1: 0.50 LB
CAD: 107421957/NET4530
BILL SENDER

TO ROTH FARM, LLC

423 CLEARVIEW AVENUE

WHEELING WV 26003

(000) 000-0000 REF: 1685
INV: DEPT:
PO:



581J1/DB09/FE2D

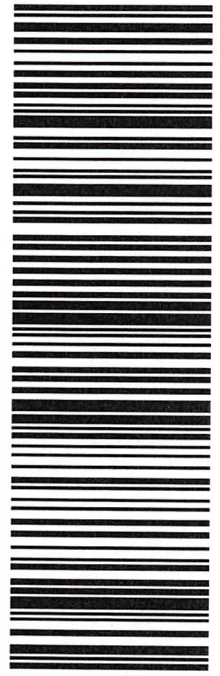
TRK# 7709 3704 4132
0201

MON - 09 JAN 4:30P

EXPRESS SAVER

6LHLGA

ASR 26003
PIT
WV-US



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December 20, 2022

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

RE: Proposed Expedited Modification:

*OK # 1071025
5000*
Roth OHI 10H - 69-00339
Roth OHI 6H - 69-00349
Roth OHI 206H - 69-00350
Roth OHI 8H - 69-00348

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Office of Oil and Gas

DEC 21 2022

WV Department of
Environmental Protection

Dear Mr. Brewer:

Enclosed please find the required documents to modify the above mentioned wells. We would like to modify the FW Casing Depth on these wells. This well is situated on the Roth's property, in Richland District, Ohio County, West Virginia.

Enclosed you will find:

- 6B
- WBD

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

Thank you.

Sincerely,

Brittany Woody

Brittany Woody
Senior Regulatory Analyst
Southwestern Energy Production Company, LLC

*R²
A* *W⁺*

01/13/2023



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

Expedited Modification Horizontal H6A Well Work Permit API : (47-069-00339, 47-069-00348, 47-069-00349, 47-069-00350)

1 message

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

Mon, Jan 9, 2023 at 10:41 AM

To: Brittany Woody <Brittany_Woody@swn.com>, Liz Gee <liz_gee@swn.com>, Mark Musick <mmusick@assessor.org>, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>

I have attached a copy of the newly issued well [permit](#) number(s):

47-061-00339 - ROTH OHI 10H
47-061-00348 - ROTH 8H
47-061-00349 - ROTH 6H
47-061-00350 - ROTH 206H

These will serve as your copy.

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

4 attachments

 **47-069-00350 - mod.pdf**
3013K

 **47-069-00348 - mod.pdf**
2898K

 **47-069-00339 - mod.pdf**
3429K

 **47-069-00349 - mod.pdf**
2013K

01/13/2023