



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

Tuesday, September 5, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for EDWARD DREMAK OHI UP 2H
47-069-00333-00-00

Casing Changes

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: EDWARD DREMAK OHI UP 2H
Farm Name: ANDREW JOHN EVICK
U.S. WELL NUMBER: 47-069-00333-00-00
Horizontal 6A New Drill
Date Modification Issued: 09/05/2023

Promoting a healthy environment.

09/08/2023

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 4-Richland 641-Tiltonsville &
Operator ID County District Quadrangle

2) Operator's Well Number: Edward Dremak UP OHI 2H Well Pad Name: Edward Dremak OHI PAD

3) Farm Name/Surface Owner: Andrew John Evick Public Road Access: North Fork Road

4) Elevation, current ground: 1088' Elevation, proposed post-construction: 1088'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

RECEIVED
Office of Oil and Gas
AUG 24 2023
WV Department of
Environmental Protection

6) Existing Pad: Yes or No yes
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s)
Target Formation- Middle Point Pleasant, Up-Dip Well to the North, Target Top TVD- 10335', Target Base TVD- 10471', Anticipated Thickness- 136', Associated Pressure- 8393

8) Proposed Total Vertical Depth: 10,394'

9) Formation at Total Vertical Depth: Trenton

10) Proposed Total Measured Depth: 20045'

11) Proposed Horizontal Leg Length: 9208.13'

12) Approximate Fresh Water Strata Depths: 259'

13) Method to Determine Fresh Water Depths: Salinity Profile, Nearby Spring

14) Approximate Saltwater Depths: 377' TVD

15) Approximate Coal Seam Depths: 274'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 274'

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: _____
Depth: _____
Seam: _____
Owner: _____

Strader Gower
08/15/2023

4706900333

WW-6B
(10/14)

API NO. 47-069

OPERATOR WELL NO. Edward Dremak UP OHI 2H

Well Pad Name: Edward Dremak OHI PAD

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 | 30" | New | H-40 | 98.9# | 136' | 136' / | CTS / |
| Fresh Water | 20" | New | J-55 | 94.5# | 320' | 320' / | 682 sx/CTS |
| Coal | See | Surface | Casing | | | | |
| Intermediate 1 | 13 3/8" | New | J-55 | 54.5# | 1700' | 1700' / | 1555 sx/CTS / |
| Intermediate 2 | 9 5/8" | New | P-110 HP | 43.5# | 0' | 9400' / | 1109 sx/CTS |
| Production | 5 1/2" | New | P-110 HP | 23# | 9400' | 20045' / | Tall 2442sx/100' inside intermediate |

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Max. Associated Surface Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|----------------|-----------|------------------------|---------------------|----------------------|--|-------------|--------------------------|
| Conductor | 30" | 30" | 0.75 | 2780 | 81 | Class A | 1.19/50% Excess |
| Fresh Water | 20" | 24" | 0.438 | 2110 | 633 | Class A | 1.19/50% Excess |
| Coal | See | Surface | Casing | | | | |
| Intermediate 1 | 13 3/8" | 17.5" | 0.33 | 2730 | 1768 | Class A | 1.19/50% Excess |
| Intermediate 2 | 9 5/8" | 12 1/4" | 0.395 | 5750 | 3898 | Class A | 1.68/1.25 |
| Production | 5 1/2" | 8 3/4" | 0.415 | 14520 | 9918 | Class A | |

RECEIVED
Office of Oil and Gas

AUG 24 2023

WV Department of
Environmental Protection

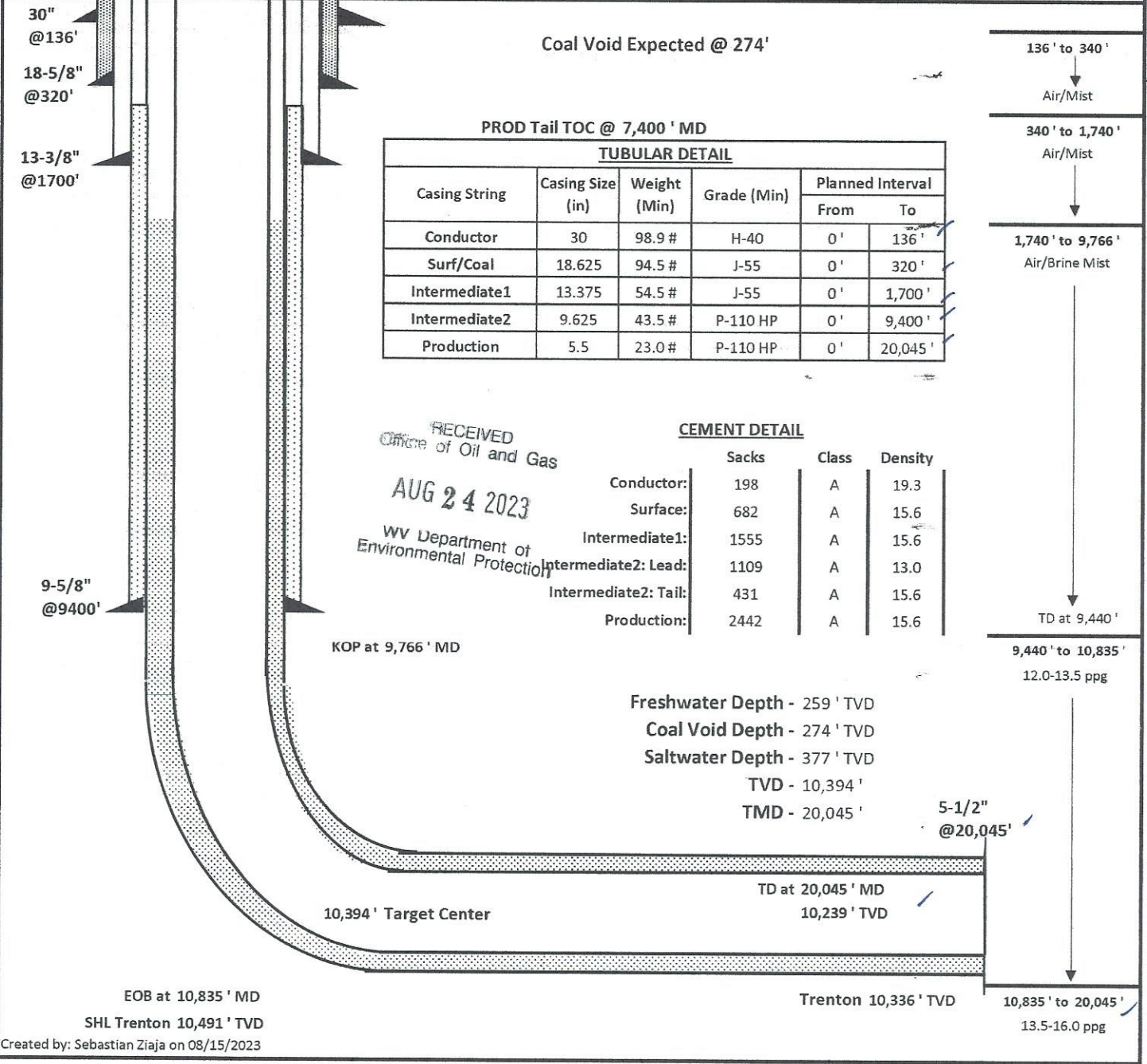
PACKERS

| | | | | |
|-------------|--|--|--|--|
| Kind: | | | | |
| Sizes: | | | | |
| Depths Set: | | | | |

Strader Gower
08/15/2023

Southwestern Energy Company **Proposed Drilling Program**

| | |
|--|--|
| <p>Well: EDWARD DREMAK UP OHI 2 Field: PANHANDLE FIELD DRY County: OHIO SHL (NAD83): 40.15888 Latitude -80.65164 Longitude BHL (NAD83): 40.18318 Latitude -80.66868 Longitude KB Elev: 1,114 ft MSL KB: 26 ft AGL GL Elev: 1,088 ft MSL</p> | <p>Drilling Rig: SDC 40 Prospect: Utica State: WV</p> |
|--|--|



Shadr Gower
8/16/2023

09/08/2023

Created by: Sebastian Ziaja on 08/15/2023



CK# 0001077050
CK\$ 7,500.00

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

August 23, 2023

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

RECEIVED
Office of Oil and Gas
AUG 24 2023
WV Department of
Environmental Protection

RE: Proposed Expedited Mod: Edward Dremak UP OHI 2H API 47-069-00333

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We would like to modify the casing types and set depths due to outdated practices. This well is situated on the Dremak's property, in Richland, Ohio County, West Virginia.

Enclosed you will find:

- 6B
- WBD

RECEIVED
Office of Oil and Gas
AUG 24 2023
WV Department of
Environmental Protection

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

Thank you.

Sincerely,

Brittany Woody
Staff Regulatory Specialist
Southwestern Energy Production Company, LLC



The Right People doing the Right Things,
wisely investing the cash flow from our
underlying assets. *Value+*

09/08/2023