



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

Thursday, March 7, 2024
WELL WORK PERMIT
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for Deborah Craig OHI 206H
47-069-00369-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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.

James A. Martin
Chief

Operator's Well Number: Deborah Craig OHI 206H
Farm Name: Deborah Ann Craig and Seth Co
U.S. WELL NUMBER: 47-069-00369-00-00
Horizontal 6A New Drill
Date Issued: 3/7/2024

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 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. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

4706900369

API NO. 47-069 -
OPERATOR WELL NO. Deborah Craig OHI 206H ✓
Well Pad Name: Deborah Craig

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 069-Ohio 07-Triade 648-Valley Grove
Operator ID County District Quadrangle

2) Operator's Well Number: Deborah Craig OHI 206H Well Pad Name: Deborah Craig

3) Farm Name/Surface Owner: Deborah Ann Craig & Seth Collin Craig Public Road Access: McCutcheon Road

4) Elevation, current ground: 1330' Elevation, proposed post-construction: 1330'

5) Well Type (a) Gas x Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow x Deep _____
Horizontal x

6) Existing Pad: Yes or No Yes ✓

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- 6670', Target Base TVD- 6723', Anticipated Thickness- 53', Associated Pressure- 4369

8) Proposed Total Vertical Depth: 6705' ✓

9) Formation at Total Vertical Depth: Marcellus ✓

10) Proposed Total Measured Depth: 19353' ✓

11) Proposed Horizontal Leg Length: 11635.97' ✓

12) Approximate Fresh Water Strata Depths: 560' ✓

13) Method to Determine Fresh Water Depths: Nearby Offset Well

14) Approximate Saltwater Depths: 812' Salinity Profile

RECEIVED
Office Of Oil and Gas

15) Approximate Coal Seam Depths: 679'

FEB 06 2024

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of WV Department of Environmental Protection

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No x

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

Seth Group
11/6/2023

4706900369

API NO. 47-069 -

OPERATOR WELL NO. Deborah Craig OHI 206H

Well Pad Name: Deborah Craig

WW-6B
(04/15)

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#	136'	136' ✓	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	710'	710' ✓	816 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2105'	2105' ✓	819 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	19353'	19353' ✓	Tail 3494sx/ 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"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/10-15% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

Deborah Craig
11/6/2023

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16

22) Area to be disturbed for well pad only, less access road (acres): 6

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

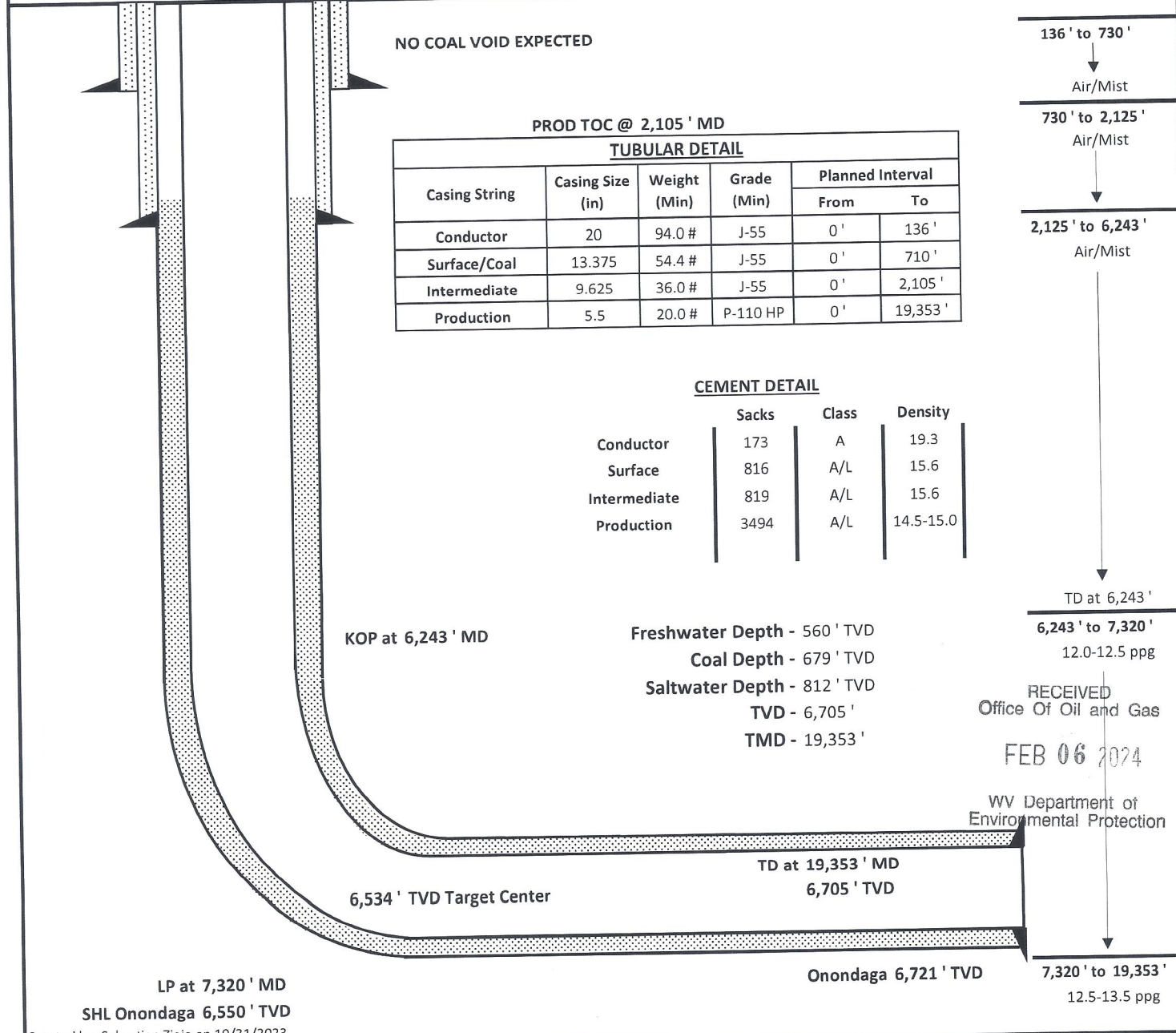
See Attachment ***

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

Southwestern Energy Company			Proposed Drilling Program		
Well:	DEBORAH CRAIG OHI 206H		Drilling Rig:	SDC 41	
Field:	PANHANDLE FIELD WET		Formation:	Marcellus Shale	
County:	OHIO		State:	WV	
SHL (NAD83):	40.047890 Latitude	-80.584877 Longitude			
BHL (NAD83):	40.016220 Latitude	-80.569034 Longitude			
KB Elev:	1,356 ft MSL	KB Height: 26 ft AGL	GL Elev:	1,330 ft MSL	



PROD TOC @ 2,105' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface/Coal	13.375	54.4 #	J-55	0'	710'
Intermediate	9.625	36.0 #	J-55	0'	2,105'
Production	5.5	20.0 #	P-110 HP	0'	19,353'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	816	A/L	15.6
Intermediate	819	A/L	15.6
Production	3494	A/L	14.5-15.0

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Office Of Oil and Gas
FEB 06 2024
WV Department of
Environmental Protection

Created by: Sebastian Ziaja on 10/31/2023

SHL
11/6/2023

WW-9
(4/16)

API Number 47 - 069 - _____
Operator's Well No. Deborah Craig OHI 206H

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

4706900369

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Taryard Run of Middle Wheeling Creek of Wheeling Creek Quadrangle Valley Grove

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:

- Land Application
- Underground Injection (UIC Permit Number Various Approved Facilities)
- Reuse (at API Number At the next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain recovery and solidification on site)

Will closed loop system be used? If so, describe: Yes- See Attachment 3A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD

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

Additives to be used in drilling medium? Attachment 3B

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

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

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021

Apex Sanitary Landfill U6-U6438, Brooke Co SWF-1013, FMS 353100

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 August 1, 2005, 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.

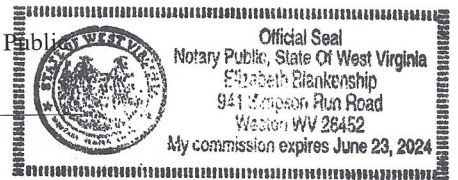
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 Brittany Woody
Company Official (Typed Name) Brittany Woody
Company Official Title Staff Regulatory Specialist

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Office of Oil and Gas
FEB 06 2024
WV Department of Environmental Protection

Subscribed and sworn before me this 1 day of Nov, 2023

Elizabeth Blankenship Notary Public
My commission expires 6/23/2024



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 16 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 6 **4706900369**

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C

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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *John Casper*

Comments: _____

Title: Oil & Gas Inspector Date: 11/6/2023

Field Reviewed? Yes No

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

4706900369



SWN Production Company, LLC
1300 Fort Pierpont Drive, Suite 201
Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: Deborah Craig OHI 206H
Valley Grove QUAD
Triadelphia DISTRICT
OHIO COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Brittany Woody

Date: 10/31/2023

Title: Staff Regulatory Specialist

SWN Production Co., LLC

Approved by:

Name: STRADER GOWER

Date: 11/6/2023

Title: Oil & Gas Inspector

Approved by:

Name: _____

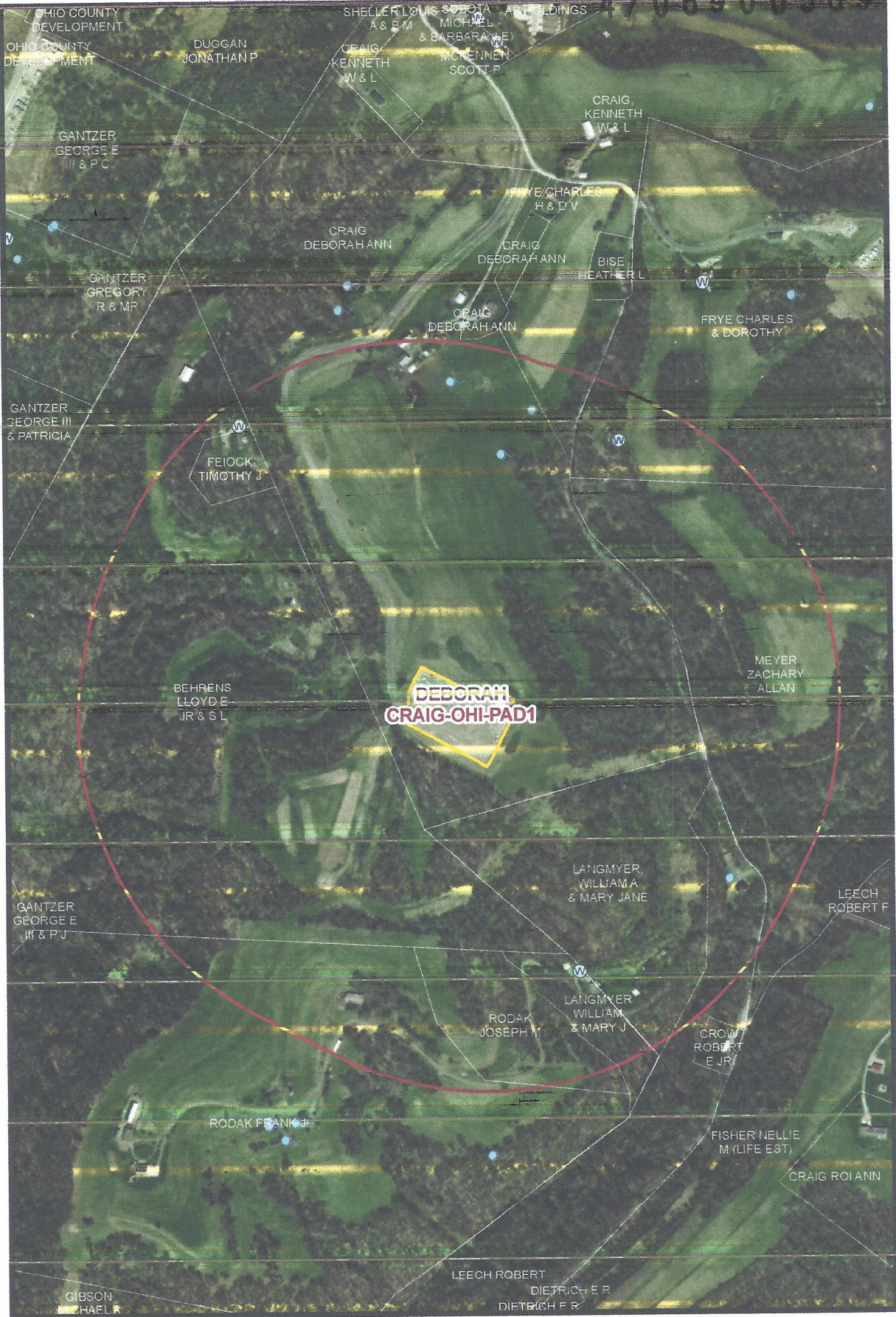
Date: _____

Title: _____

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Office Of Oil and Gas
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WV Department of
Environmental Protection

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

4706900360



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

Structure Proximity Map		Well Pad: Deborah Craig OHI	County: Ohio
Map by: zoellicl	Date: 11/1/2023	1 inch = 500 feet	
Nad 83 UTM Z one 17	SWI SOUTHWESTERN ENERGY		
<ul style="list-style-type: none"> Well Pad Water Well Water Sources Pond Spring Well Pad 1500' Buffer 			

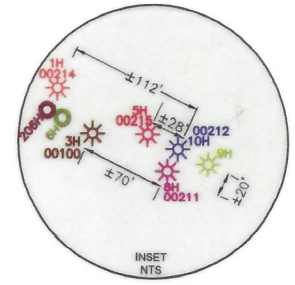
**JACKSON SURVEYING
INC.**
2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

Latitude: 40°02'30"

Latitude: 40°05'00" SURFACE HOLE 432'

BOTTOM HOLE 7663'

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

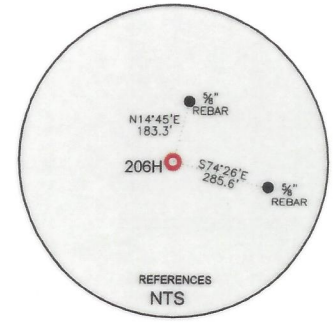
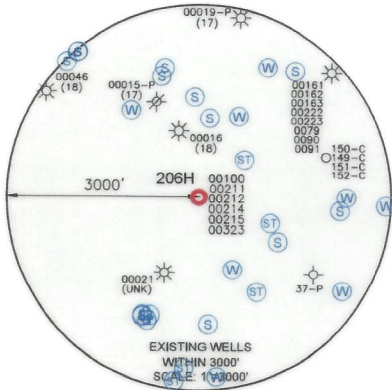


SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,155.126 EASTING: 535,410.066
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,785.799 EASTING: 534,899.131
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,646.445 EASTING: 536,778.517

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°18'51" W	2993.78'	SHL TO LANDMARK	SPIKE FOUND
L2	S 79°03'55" E	1202.31'	SHL TO LANDMARK	FENCE POST FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 54°28'41" W	2075.11'	2655.96'	SHL TO LP
L4	S 32°23'08" E	391.55'	391.84'	AZL1 TO AZL2

BOTTOM HOLE 9270'

SURFACE HOLE 12912'



Latitude: 80°32'30"

Longitude: 80°35'00"

WELL RESTRICTIONS

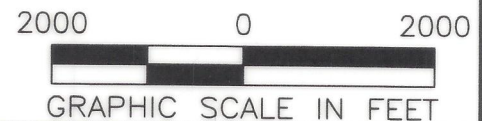
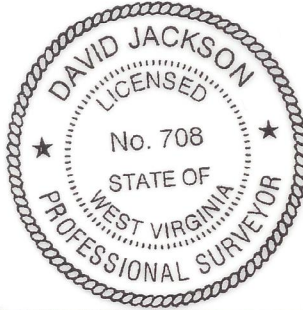
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708 *David L Jackson*



COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

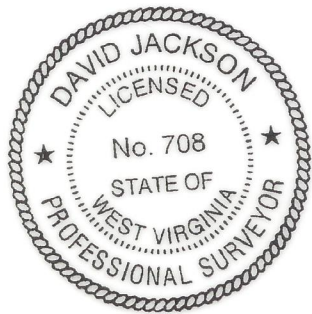
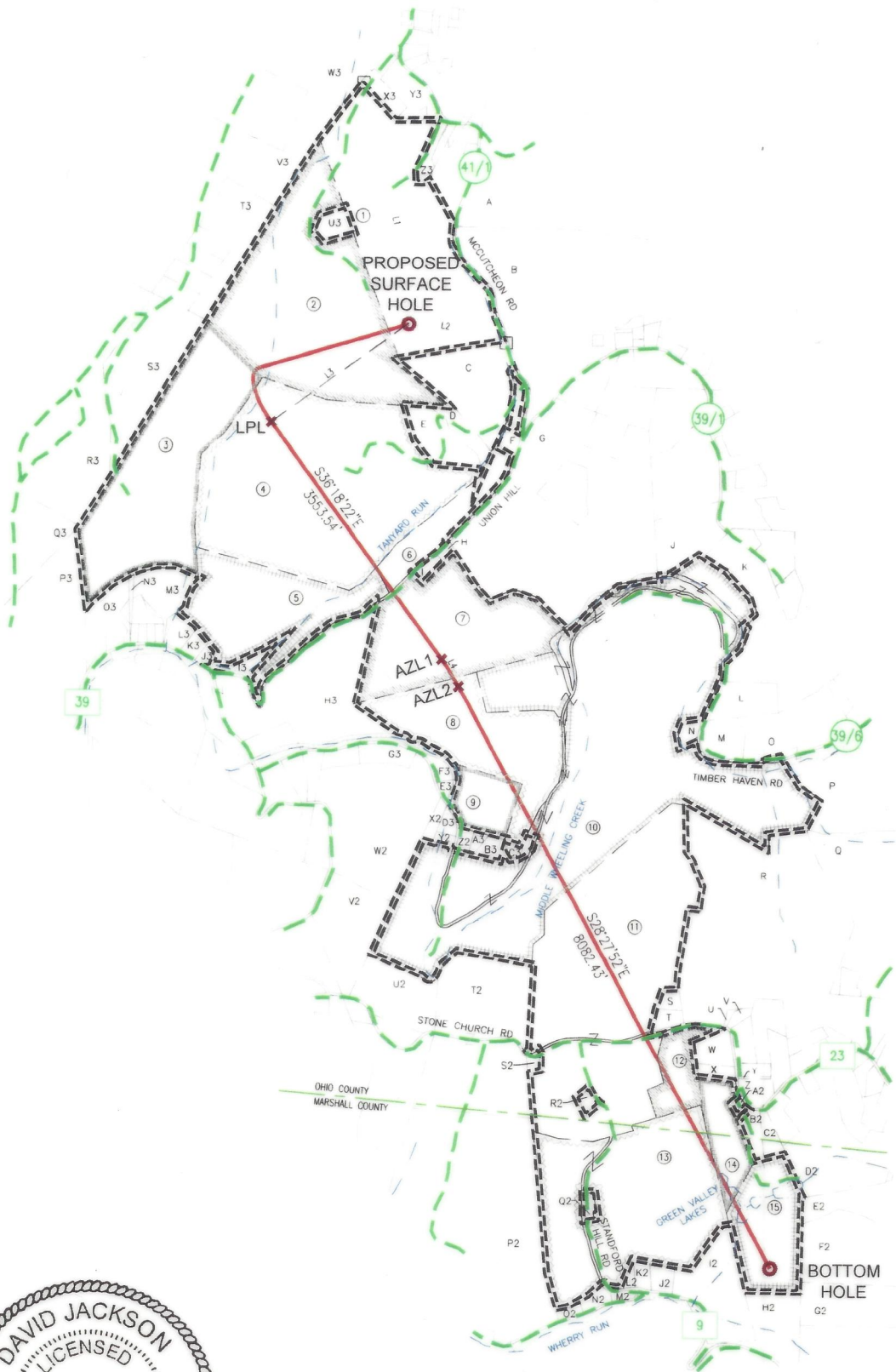
<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>DEBORAH CRAIG OHI</p> <p>OPERATOR'S WELL #: 206H</p> <p>API WELL #: 47 STATE 069 COUNTY 00369 PERMIT</p>
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WELL TYPE: OIL	WASTE DISPOSAL	PRODUCTION <input checked="" type="checkbox"/>	DEEP	GAS <input checked="" type="checkbox"/>	LIQUID INJECTION	STORAGE	SHALLOW <input checked="" type="checkbox"/>
WATERSHED: TARYARD RUN OF MIDDLE WHEELING CREEK OF WHEELING CREEK (HUC 10)					ELEVATION: 1329.9'		
DISTRICT: TRIADDELPHIA COUNTY: OHIO					QUADRANGLE: VALLEY GROVE, WV		
SURFACE OWNER: DEBORAH ANN CRAIG & SETH COLLIN CRAIG					ACREAGE: ±84.63		
OIL & GAS ROYALTY OWNER: DEBORAH ANN CRAIG & SETH COLLIN CRAIG					ACREAGE: ±84.63		
DRILL <input checked="" type="checkbox"/>	DRILL DEEPER <input type="checkbox"/>	REDRILL <input type="checkbox"/>	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION <input type="checkbox"/>	PERFORATE NEW FORMATION <input checked="" type="checkbox"/>		
CONVERT <input type="checkbox"/>	PLUG & ABANDON <input type="checkbox"/>	CLEAN OUT & REPLUG <input type="checkbox"/>	OTHER CHANGE <input type="checkbox"/> (SPECIFY)				
TARGET FORMATION: BURKET					ESTIMATED DEPTH: 6,705 TVD 19,353 TMD		

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT RD. SUITE 200	ADDRESS: 1300 FORT PIERPONT RD. SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊙ EXISTING SPRING — SURVEYED BOUNDARY — DRILLING UNIT — LEASE BOUNDARY — PROPOSED PATH 	<p>REVISIONS:</p> <table border="1"> <tr> <td> </td> <td>DATE: 11-03-2023</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		DATE: 11-03-2023																		
	DATE: 11-03-2023																				

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26301
 304-623-5851



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708 *David L Jackson*


REVISIONS:	COMPANY:			
	OPERATOR'S			DATE: 11-03-2023
	WELL #:			DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A
	TRIADDELPHIA	OHIO	WV	DRAWING NO:
				WELL LOCATION PLAT 2

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26301
 304-623-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	CRAIG DEBORAH ANN & CRAIG SETH COLLIN (S/R)	06-T13-16
SURFACE OWNER (S)		
2	REIHNER JOHN & ROBYN; ET AL (S)	06-T13-15
3	GANTZER RIDGE ROAD FARM I LLC (S)	06-T13-9
4	RODAK FRANK J (S)	06-T13-14
5	GIBSON MICHAEL A - TOD (S)	06-T13-10
6	TARRANT KRISTOPHER & KRISTI (S)	06-T13-17
7	DIETRICH WILLIAM A (S)	06-T13-18
8	OKANE JOSEPH A (S)	06-T18-16
9	GRIBBEN KIRK J & MELINDA D (S)	06-T18-30
10	WHEELING CREEK WATERSHED PROT & FLOOD PREVENTION COMMISSION (S)	06-T14-6
11	MOSS KEYSTONE TRUST C/O MOSS NANCY L (S)	06-T19-1
12	CATLETT WILLIAM H JR & F A (S)	06-T19-2
13	MOSS FAMILY KEYSTONE TRUST AGREEMENT (S)	12-3-5
14	IRWIN JAY M (S)	06-T19-14
15	W W HOME RENTALS LLC (S)	06-T19-14.4

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	FRYE DOROTHY & FRYE DAVID W (RT TO OCC)	06-T14-1
B	MEYER ZACHARY ALLAN	06-T14-2
C	LANGMYER MARY JANE - TOD	06-T13-17.2
D	LANGMYER MARY JANE - TOD	06-T13-14.1
E	RODAK BRIANNA DAWN	06-T13-14.2
F	CROW ROBERT E JR	06-T13-17.1
G	FISHER NELLIE M (LIFE EST) & CRAIG DEBORAH A	06-T14-5
H	DIETRICH WILLIAM A II & CYNTHIA T DIETRICH	06-T13-18.1
I	DIETRICH WILLIAM A II & CYNTHIA T DIETRICH	06-T13-18.2
J	LUZADER JEFFREY O & ANN W TRUSTEES	06-T14-11.8
K	BOPP CHRISTY M	06-T14-10
L	HOHMAN CHARLES T (LE) HOHMAN HEIDI S; HOHMAN JODIE K	06-T14-10.3
M	HOHMAN CHARLES T (LE) HOHMAN HEIDI S; HOHMAN JODIE K	06-T14-7
N	WHEELING CREEK WATERSHED PROT & FLOOD PREVENTION COMMISSION	06-T14-6.1
O	SOEHNLEIN COLLEEN MARIE & KENNETH W SOEHNLEIN JR	06-T14-8
P	WEEKS JOHN E & MARIMAR	06-T19-6
Q	HOLMES MITCHELL R & P A	06-T19-5
R	MITCHAM JAMES A AND MITCHAM BERNICE A	06-T19-1.12
S	MURPHY SUSAN E - TOD	06-T19-1.22
T	WHITECOTTON SHARON SUE - TOD	06-T19-1.9
U	MITCHAM LISA LEE	06-T19-1.5
V	MITCHAM LISA LEE	06-T19-1.17
W	BARTON JEREMY D & BROOKE M	06-T19-14.2
X	BARTON JEREMY D & BROOKE M	06-T19-14.3
Y	PARKS JOHNATHON D & REBECCA R	06-T19-1.21
Z	HELT MARY E & PAUL T	06-T19-1.3
A2	IRWIN JAY MICHAEL	06-T19-14.1
B2	WW HOME RENTALS LLC	06-T19-15
C2	RIGGLE THOMAS E & RIGGLE KYLE T	06-T19-16
D2	WILSON WILBUR F JR & WILSON NORMA L	06-T19-3
E2	GRAY JAMES ET UX	12-4-3.3
F2	GRAY JAMES R & JUDITH C	12-4-3.2
G2	BRYANT DON N & SUZANNE J - TOD	12-4-13
H2	HILBERRY GARRY L & DENISE L	12-3-7
I2	WEST CAROLYN B J	12-3-6
J2	BRAGG LOUIS O JR & JANETTE A	12-3-6.2
K2	BRAGG LOUIS O JR & JANETTE A	12-3-6.1
L2	BRAGG LOUIS O JR & JANETTE A	12-3-5.2

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
M2	SAFRED RONALD L	12-3-5.4
N2	THOMAS J W ET UX	12-3-5.1
O2	THOMAS JOSEPH W & JOANN C	12-3-5.3
P2	ESTEP JERRY R ET AL	12-3-2
Q2	MOSS FAMILY KEYSTONE TRUST	12-3-4
R2	VENSKOSKE RONALD & MOSS R L	06-T19-1.20
S2	BROMELOW KRISTEN A	06-T18-31
T2	GRIBBEN KIRK J & MELINDA	06-T18-29
U2	SCHWEIZER WILLIAM & DEBORAH	06-T18-12
V2	MOSES ADRIAN JAMES	06-T18-12.7
W2	DAGUE KELLI L	06-T18-11
X2	HELDEFFER GEORGE W & JUDITH D	06-T18-9.1
Y2	HUGHES GARY R & W C	06-T18-11.4
Z2	SCHMITT JOHN G	06-T18-13.4
A3	SCHMITT JOHN H	06-T18-13.3
B3	ELLIS ANDREW D & STEPHANIE J	06-T18-13.1
C3	ELLIS ANDREW D & STEPHANIE J	06-T18-16.2
D3	WEIDE ROBERT A	06-T18-11.3
E3	THOMAS EDWARD A & M A	06-T13-20
F3	WEAVER MICHAEL J & P A	06-T18-11.5
G3	HOHMAN MICHAEL P & CYNTHIA L	06-T13-21
H3	DAILER JAMES J - TOD	06-T13-13.1
I3	HOPKINS CLARENCE E	06-T13-10.1
J3	RICH PAULA ANN C/O MCCROSKEY PAULA ANN	06-T13-10.4
K3	GIBSON ADAM G & KAYLA M	06-T13-10.17
L3	GIBSON BRENDEN M	06-T13-10.18
M3	GIBSON BRENDEN & ADAM GIBSON	06-T13-10.9
N3	KNOYER CARL R & ROXANE R	06-T13-10.14
O3	GRIBBEN LAWRENCE JOSEPH & GRIBBEN JOAN MARIE	06-T13-10.2
P3	FITZSIMMONS DAVID H & RICH H	06-T13-5.3
Q3	GANTZER RIDGE ROAD FARM I LLC	06-T13-6
R3	GANTZER RIDGE ROAD FARM I LLC	06-T13-6.2
S3	GANTZER RIDGE ROAD FARM I LLC 1/3 INT & G R GANTZER 2/3 INT	06-T13-8
T3	GANTZER RIDGE ROAD FARM I LLC	06-T13-27
U3	STUCKI DAMON D & BELL MANDI J	06-T13-15.1
V3	GANTZER GREGORY R & MR	6-T13-7
W3	DUGGAN JONATHAN P & DUGGAN JAMES P	06-T8-46
X3	CRAIG KENNETH BRYAN	06-T8-53.2
Y3	CRAIG KENNETH W & L	06-T8-53
Z3	CRAIG DEBORAH ANN & CRAIG SETH COLLIN	06-T8-50

REVISIONS:	COMPANY:		
	OPERATOR'S	DEBORAH CRAIG OHI	
	WELL #:	206H	
	DISTRICT:	COUNTY:	STATE:
	TRIADELPHIA	OHIO	WV
			DATE: 11-03-2023
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

WW-6A1
(5/13)

Operator's Well No. Deborah Craig OHI 206H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Exhibit "A"				

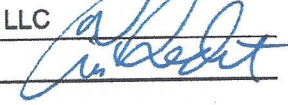
*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: SWN Production Company, LLC
 By: Tim Ledet 
 Its: Staff Landman

4706900369

EXHIBIT "A"
Deborah Craig OHI 206H
Ohio County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
1	06-T13-16	Deborah Ann Craig, a widow	Chesapeake Appalachia, L.L.C.	14.00%	799/109	0.00%
			SWN Production Company, LLC		885/524	
		Seth Collin Craig, a single man	Chesapeake Appalachia, L.L.C.	14.00%	799/215	0.00%
			SWN Production Company, LLC		885/524	
2	06-T13-15	Lloyd E. Behrens, Jr. and Sandra L. Behrens, his wife	Great Lakes Energy Partners, L.L.C.	15.00%	774/373	0.00%
			Chesapeake Appalachia, L.L.C.		808/402	
			SWN Production Company, LLC		883/204	
3	06-T13-9	George E. Gantzer, III and George E. Gantzer, III Attorney-In-Fact for Patricia J. Gantzer, his wife	Chesapeake Appalachia, L.L.C.	14.00%	793/525	0.00%
			SWN Production Company, LLC		885/512	
4	06-T13-14	Frank J. Rodak, a single man	Chesapeake Appalachia, L.L.C.	12.50%	790/706	0.00%
			SWN Production Company, LLC		885/482	
5	06-T13-10	Michael A. Gibson, a single man	Chesapeake Appalachia, L.L.C.	12.5	791/428	0
			SWN Production Company, LLC		885/500	
6	06-T13-17	Robert F. Leach and Deborah A. Leach, husband and wife	TriEnergy Holdings, LLC	14.50%	802/168	0.00%
			NPAR, L.L.C.		825/767	
			Chevron U.S.A. Inc.		827/254	
			Chesapeake Appalachia, L.L.C.		867/713	
			SWN Production Company, LLC		885/308	
7	06-T13-18	William A. Dietrich II, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	823/505	0.00%
			SWN Production Company, LLC		885/128	
8	06-T18-16	Royalty Owners	N/A	N/A	N/A	5.70%
		Bounty Minerals, LLC, et al	SWN Production Company, LLC	18.00%	938/794	0.00%
		James F. Deming	SWN Production Company, LLC	14.00%	1047/243	0.00%
		Lynn Johnson	SWN Production Company, LLC	14.00%	1049/518	0.00%
		Kristine Easterday	SWN Production Company, LLC	14.00%	1055/146	0.00%
		Timothy L. Easterday	SWN Production Company, LLC	14.00%	1052/156	0.00%
		James F. Hart, III	SWN Production Company, LLC	18.00%	1045/676	0.00%
		David M. Park	SWN Production Company, LLC	14.00%	1047/235	0.00%
		William E. Park	SWN Production Company, LLC	14.00%	1049/538	0.00%
		Susan Robertson	SWN Production Company, LLC	14.00%	1045/778	0.00%
		Sheila D. Shope	SWN Production Company, LLC	14.00%	1052/164	0.00%
		William H. Staub, III	SWN Production Company, LLC	18.00%	1042/482	0.00%
		Jane Weber and Charles Weber, her husband	SWN Production Company, LLC	18.00%	1044/320	0.00%

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WV Department of
Environmental Protection

4706900369

EXHIBIT "A"

Deborah Craig OHI 206H
Ohio County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

		Krisene D. Wood	SWN Production Company, LLC	14.00%	1052/104	0.00%
9	06-T18-30	Royalty Owners	N/A	N/A	N/A	5.70%
		Bounty Minerals, LLC, et al	SWN Production Company, LLC	18.00%	938/794	0.00%
		James F. Deming	SWN Production Company, LLC	14.00%	1047/243	0.00%
		Lynn Johnson	SWN Production Company, LLC	14.00%	1049/518	0.00%
		Kristine Easterday	SWN Production Company, LLC	14.00%	1055/146	0.00%
		Timothy L. Easterday	SWN Production Company, LLC	14.00%	1052/156	0.00%
		James F. Hart, III	SWN Production Company, LLC	18.00%	1045/676	0.00%
		David M. Park	SWN Production Company, LLC	14.00%	1047/235	0.00%
		William E. Park	SWN Production Company, LLC	14.00%	1049/538	0.00%
		Susan Robertson	SWN Production Company, LLC	14.00%	1045/778	0.00%
		Sheila D. Shope	SWN Production Company, LLC	14.00%	1052/164	0.00%
		William H. Staub, III	SWN Production Company, LLC	18.00%	1042/482	0.00%
		Jane Weber and Charles Weber, her husband	SWN Production Company, LLC	18.00%	1044/320	0.00%
		Krisene D. Wood	SWN Production Company, LLC	14.00%	1052/104	0.00%
10	06-T14-6	Royalty Owners	N/A	N/A	N/A	5.70%
		Bounty Minerals, LLC, et al	SWN Production Company, LLC	18.00%	938/794	0.00%
		James F. Deming	SWN Production Company, LLC	14.00%	1047/243	0.00%
		Lynn Johnson	SWN Production Company, LLC	14.00%	1049/518	0.00%
		Kristine Easterday	SWN Production Company, LLC	14.00%	1055/146	0.00%
		Timothy L. Easterday	SWN Production Company, LLC	14.00%	1052/156	0.00%
		James F. Hart, III	SWN Production Company, LLC	18.00%	1045/676	0.00%
		David M. Park	SWN Production Company, LLC	14.00%	1047/235	0.00%
		William E. Park	SWN Production Company, LLC	14.00%	1049/538	0.00%
		Susan Robertson	SWN Production Company, LLC	14.00%	1045/778	0.00%
		Sheila D. Shope	SWN Production Company, LLC	14.00%	1052/164	0.00%
		William H. Staub, III	SWN Production Company, LLC	18.00%	1042/482	0.00%
		Jane Weber and Charles Weber, her husband	SWN Production Company, LLC	18.00%	1044/320	0.00%
		Krisene D. Wood	SWN Production Company, LLC	14.00%	1052/104	0.00%
11	06-T19-1	Byron R. Moss and Nancy L. Moss, his wife	NPAR, L.L.C.	18.00%	815/425	0.00%
			Chevron U.S.A. Inc.		827/284	
			Chesapeake Appalachia, L.L.C.		867/713	
			SWN Production Company, LLC		885/320	

4706900369

EXHIBIT "A"

Deborah Craig OHI 206H
Ohio County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

12	06-T19-2	William H. Catlett, Jr. and/or Francine A. Catlett, husband and wife	NPAR, L.L.C.	18.00%	810/91	0.00%
			Chevron U.S.A. Inc.		827/269	
			Chesapeake Appalachia, L.L.C.		867/713	
			SWN Production Company, LLC		885/320	
13	12-3-5	Bryon R. Moss and Nancy L. Moss, his wife (Life-Estate Interest) and Kristin Rafiani, a married woman acting in her sole and separate property; Susan Oberle, a married woman acting in her sole and separate property; Rebecca Wagner, a married woman acting in her sole and separate property; and Roberta Moss, a single woman (Remainder Interest)	NPAR, L.L.C.	18.00%	722/469	0.00%
			Chevron U.S.A. Inc.		756/332	
			Chesapeake Appalachia, L.L.C.		30/532	
			SWN Production Company, LLC		33/110	
14	06-T19-14	Jay M. Irwin, a married man dealing in his sole and separate property	TH Exploration, LLC	18.00%	928/263	0.00%
			American Petroleum Partners Operating, LLC		973/737	
			SWN Production Company, LLC		980/572	
15	06-T19-14.4	Jay M. Irwin, a married man dealing in his sole and separate property	TH Exploration, LLC	18.00%	928/263	0.00%
			American Petroleum Partners Operating, LLC		973/737	
			SWN Production Company, LLC		980/572	
END OF EXHIBIT A						

Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.



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

October 31, 2023

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

RE: SWN's proposed New Well: Deborah Craig OHI 206H in Ohio County, West Virginia, Drilling under Rising Sun Lane, Union Hill Road, and Stone Church Road.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Rising Sun Lane, Union Hill Road and Stone Church Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Timothy F. Ledet
Staff Landman
SWN Production Company, LLC

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The Right People doing the Right Things,
wisely investing the cash flow from our
underlying Assets, will create Value+®

WW-PN
(11-18-2015)

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Intelligencer

Public Notice Date: November 3, 2023 & November 10, 2023

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads **or** utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: SWN Production Company, LLC **Well Number:** Deborah Craig OHI 206H

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Ohio</u>	RECEIVED Office Of Oil and Gas
District:	<u>Triadelphia</u>	Quadrangle:	<u>Valley Grove</u>	FEB 06 2023
UTM Coordinate NAD83 Northing:	<u>4,433,155</u>			
UTM coordinate NAD83 Easting:	<u>535,410</u>			WV Department of Environmental Protection
Watershed:	<u>Taryard Run of Middle Wheeling Creek of Wheeling Creek</u>			

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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

Date of Notice Certification: 1/31

API No. 47- 069 - _____
Operator's Well No. Deborah Craig OHI 206H
Well Pad Name: Deborah Craig

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>535,410.066</u>
County: <u>069-Ohio</u>		Northing: <u>4,433,155.126</u>
District: <u>Triadelphia</u>	Public Road Access: <u>McCutcheon Road</u>	
Quadrangle: <u>Valley Grove</u>	Generally used farm name: <u>Deborah Craig</u>	
Watershed: <u>Taryard Run of Middle Wheeling Creek of Wheeling Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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WV Department of
Environmental Protection

Required Attachments:

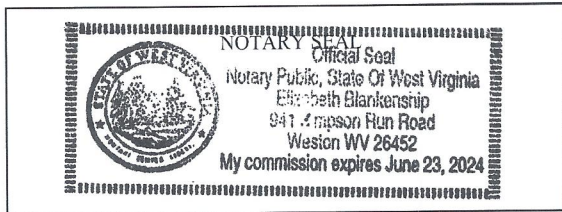
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Brittany Woody, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	<u>SWN Production Co., LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
By:	<u>Brittany Woody</u>		<u>Morgantown, WV 26508</u>
Its:	<u>Staff Regulatory Specialist</u>	Facsimile:	<u>304-884-1690</u>
Telephone:	<u>304-884-1610</u>	Email:	<u>Brittany_Woody@swn.com</u>

Brittany Woody



Subscribed and sworn before me this 1 day of Nov 2023
Elizabeth Blankenship Notary Public
 My Commission Expires 6/23/2024

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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 Office Of Oil and Gas
 FEB 06 2024
 WV Department of
 Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 1/31 Date Permit Application Filed: 1/31

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: Deborah Ann Craig & Seth Collin Craig
Address: 873 McCutcheon Road
Triadelphia, WV 26059

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: Alliance Resources GP LLC Attn: Evan Midler
Address: 184 Schoolhouse Lane
Valley Grove, WV 26060

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COAL OPERATOR
Name: _____
Address: _____
WV Department of Environmental Protection

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attachment 13A
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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Office Of Oil and Gas
FEB 06 2024

API NO. 47- 069 -
OPERATOR WELL NO. Deborah Craig OHI 206H
Well Pad Name: Deborah Craig

WV Department of
Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 069 -
OPERATOR WELL NO. Deborah Craig OHI 206H
Well Pad Name: Deborah Craig
4706900369

Notice is hereby given by:

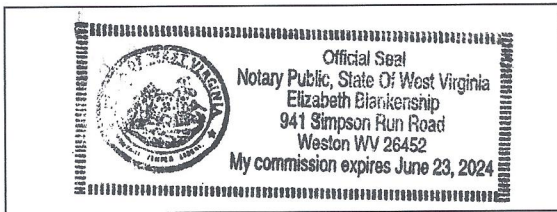
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Subscribed and sworn before me this 1 day of Nov, 2023.

Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2024

RECEIVED
Office Of Oil and Gas
FEB 06 2024
WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 8/3/2023 **Date of Planned Entry:** 8/10/2023

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(S)

Name: Deborah Ann Craig & Seth Collin Craig
Address: 873 McCutcheon Road
Triadelphia, WV 26059

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Alliance Resources GP LLC Attn: Evan Midler
Address: 184 Schoolhouse Lane
Valley Grove, WV 26060

MINERAL OWNER(S)

Name: Deborah Ann Craig
Address: 873 McCutcheon Road
Triadelphia, WV 26059

*please attach additional forms if necessary

RECEIVED
Office Of Oil and Gas
FEB 06 2024
WV Department of
Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>40.055060, -80.583620</u>
County: <u>Ohio</u>	Public Road Access: <u>McCutcheon Road</u>
District: <u>Triadelphia</u>	Watershed: <u>Taryard Run of Middle Wheeling Creek</u>
Quadrangle: <u>Valley Grove</u>	Generally used farm name: <u>Deborah Craig</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 8/3/2023 **Date of Planned Entry:** 8/10/2023

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Seth Collin Craig
 Address: 189 Farmstead Lane
Triadelphia, WV 26059
 *please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>40.055060, -80.583620</u>
County: <u>Ohio</u>	Public Road Access: <u>McCutcheon Road</u>
District: <u>Triadelphia</u>	Watershed: <u>Taryard Run of Middle Wheeling Creek</u>
Quadrangle: <u>Valley Grove</u>	Generally used farm name: <u>Deborah Craig</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

RECEIVED
 Office of Oil and Gas
FEB 06 2024
 WV Department of
 Environmental Protection

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
 Telephone: 304-884-1610
 Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
 Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 12/21/2023 **Date Permit Application Filed:** 1/31

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Deborah Ann Craig & Seth Collin Craig
Address: 873 McCutcheon Road
Triadelphia, WV 26059

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>535,410.066</u>
County:	<u>Ohio</u>		Northing:	<u>4,433,155.126</u>
District:	<u>Tridelpia</u>	Public Road Access:	<u>McCutcheon Road</u>	
Quadrangle:	<u>Valley Grove, WV</u>	Generally used farm name:	<u>Deborah Craig</u>	
Watershed:	<u>Taryard Run of Middle Wheeling Creek of Wheeling (HUC10)</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-884-1675
Email: Justin_Booth@swn.com
Facsimile: _____

Authorized Representative: Justin Booth
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-884-1675
Email: Justin_Booth@swn.com
Facsimile: _____

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Office Of Oil and Gas
FEB 06 2024

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 12/21/2023 **Date Permit Application Filed:** 1/31

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Deborah Ann Craig & Seth Collin Craig</u>	Name: _____
Address: <u>873 McCutcheon Road</u>	Address: _____
<u>Triadelphia, WV 26059</u>	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>WV</u>	UTM NAD 83 Easting: <u>535,410.066</u>
County: <u>Ohio</u>	Northing: <u>4,433,155.126</u>
District: <u>Triadelphia</u>	Public Road Access: <u>McCutcheon Road</u>
Quadrangle: <u>Valley Grove, WV</u>	Generally used farm name: <u>Deborah Craig</u>
Watershed: <u>Taryard Run of Middle Wheeling Creek of Wheeling (HUC10)</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC

Telephone: 304-884-1675

Email: Justin_Booth@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: _____

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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
		Triethyl phosphate	78-40-0
Ferriplex 80	Iron Control	Sodium Erythorbate	6381-77-7
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
		Didecyldimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5

As of 7/5/2023

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WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E.
Deputy Secretary of Transportation
Deputy Commissioner of Highways

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

January 16, 2024

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

**Subject: DOH Permit for the Deborah Craig Well Pad, Ohio County
Deborah Craig OHI 206H Well Site**

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0477 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Ohio County Route 41/1 SLS MP 0.974.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Stephen G. Johnson, P.E.
Director of Operations

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F-03
WV Department of
Environmental Protection

Cc: Brittany Woody
SWN Production Company, LLC
OM, D-6
File

WW-6A7
(6-12)

OPERATOR: SWN Production Co., LLC

WELL NO: Deborah Craig OHI 206H

PAD NAME: Deborah Craig

REVIEWED BY: _____

SIGNATURE: Brittany Nbody

WELL RESTRICTIONS CHECKLIST

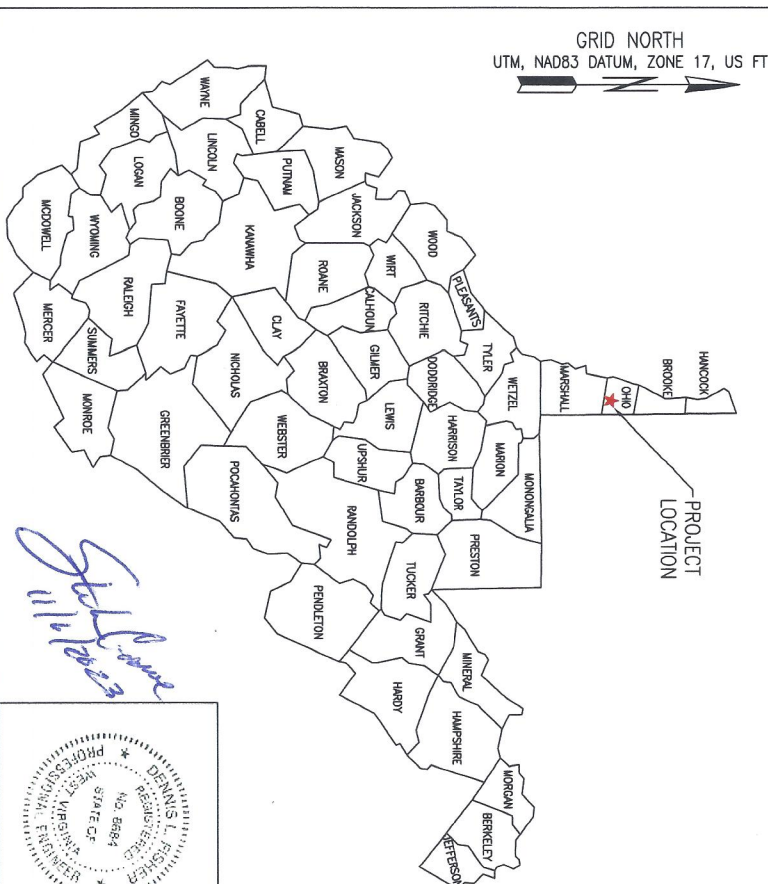
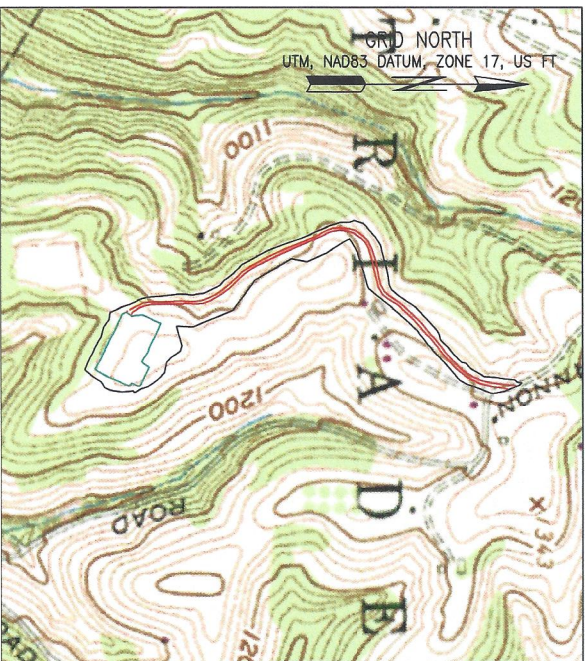
HORIZONTAL 6A WELL

** Pad Built 2/15/12*

Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
 DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
 DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
 DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions

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OR Department of
Environmental Protection



DEBORAH CRAIG OHI PAD CONSTRUCTION AND RECLAMATION PLAN AS-BUILT TRIADDELPHIA DISTRICT, OHIO COUNTY, WV AUGUST 2016

TOTAL DISTURBED AREA: 19.1 ACRES	TOTAL DISTURBED AREA: 16.0 ACRES
ROAD DISTURBED AREA: 11.8 ACRES	ROAD DISTURBED AREA: 10.0 ACRES
PAD DISTURBED AREA: 7.3 ACRES	PAD DISTURBED AREA: 6.0 ACRES

LOD #1
MODIFIED #1

COORDINATES:	SITE ENTRANCE
(NAD83)	(NAD83)
LAT: 40.055174	LAT: 40.047879
LONG: 80.583671	LONG: 80.585538
AT CRAIG PAD	CENTER OF PAD
(NAD83)	(NAD83)
LAT: 40.047879	LAT: 40.047906
LONG: 80.585538	LONG: 80.584647
GATHERING AREA	GATHERING AREA
(NAD83)	(NAD83)
LAT: 40.054929	LAT: 40.054929
LONG: 80.583630	LONG: 80.583630

EXISTING WELLS:	DEBORAH CRAIG OHI 3H
(NAD83)	(NAD83)
LAT: 40.047840	LAT: 40.047822
LONG: 80.584742	LONG: 80.584697
PROPOSED WELLS:	DEBORAH CRAIG OHI 206H
(NAD83)	(NAD83)
LAT: 40.047822	LAT: 40.047788
LONG: 80.584697	LONG: 80.584608
DEBORAH CRAIG OHI 6H	DEBORAH CRAIG OHI 8H
(NAD83)	(NAD83)
LAT: 40.047788	LAT: 40.047753
LONG: 80.584608	LONG: 80.584518
DEBORAH CRAIG OHI 10H	
(NAD83)	
LAT: 40.047802	
LONG: 80.584486	

REVISION	DATE

SHEET INDEX
TS1. TITLE SHEET
EP2.1 EVACUATION ROUTE/ PREVAILING WIND
EP2.2 EVACUATION ROUTE/ PREVAILING WIND
AS3.1 ASBUILT OVERVIEW
AS3.2 ASBUILT
AS3.3 ASBUILT
AS3.4 ASBUILT
AS3.5 ASBUILT
AS3.6 ASBUILT
AS3.7 ASBUILT
ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE
MRD5.1 RECLAMATION PLAN OVERVIEW
MRD5.2 RECLAMATION PLAN
MRD5.3 RECLAMATION PLAN
MRD5.4 RECLAMATION PLAN
MRD5.5 RECLAMATION PLAN
MRD5.6 RECLAMATION PLAN
MRD5.7 RECLAMATION PLAN
MRD6.3 RECLAMATION DETAILS
MRD6.4 RECLAMATION DETAILS

DENNIS L. FISHER
 REGISTERED PROFESSIONAL ENGINEER
 No. 8684
 STATE OF WEST VIRGINIA

Dennis L. Fisher
 DENNIS L. FISHER TITLE DESIG.
 08-04-2016
 DATE

JACKSON SURVEYING INC.
 677 W. Main St.
 Chesapeake, WV 26301
 304-623-5851

Jackson Surveying Inc.
 TITLE SHEET
 TS-1
 SOUTHWESTERN PRODUCTION COMPANY LLC.
 DEBORAH CRAIG OHI PAD
 TRIADDELPHIA DISTRICT, OHIO COUNTY, WV
 AUGUST 04, 2016

WEST VIRGINIA 811
 CALL BEFORE YOU DIG!
 Dial 811 or 800.245.4848
 www.wv811.com

SWM
 Production Company™