



west virginia department of environmental protection

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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Tuesday, October 17, 2017  
WELL WORK PERMIT  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for BRIAN DYTKO OHI 201H  
47-069-00251-00-00

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: BRIAN J DYTKO OHI 201H  
Farm Name: BRIAN J DYTKO  
U.S. WELL NUMBER: 47-069-00251-00-00  
Horizontal 6A / New Drill  
Date Issued: 10/16/2017

Promoting a healthy environment.

10/20/2017

# 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

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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. 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.

## PERMIT CONDITIONS

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](mailto:DEPOOGNotify@wv.gov).

WW-6B  
(04/15)API NO. 47-069 - \_\_\_\_\_  
OPERATOR WELL NO. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

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	Triadelph	648-Valley Grove
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Operator ID County District Quadrangle
- 2) Operator's Well Number: Brian Dytko OHI 201H Well Pad Name: Brian Dytko OHI PAD
- 3) Farm Name/Surface Owner: Brian Dytko Public Road Access: Walnut Grove Road
- 4) Elevation, current ground: 1222' Elevation, proposed post-construction: 1222'
- 5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Target Top TVD- 6313', Target Base TVD- 6350', Anticipated Thickness- 37', Associated Pressure- 4109
- 8) Proposed Total Vertical Depth: 6322'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 13337'
- 11) Proposed Horizontal Leg Length: 6225.58'
- 12) Approximate Fresh Water Strata Depths: 555'
- 13) Method to Determine Fresh Water Depths: From salinity profile and nearby water wells
- 14) Approximate Saltwater Depths: 1000'
- 15) Approximate Coal Seam Depths: 633'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No \_\_\_\_\_
- (a) If Yes, provide Mine Info: Name: Shoemaker  
Depth: 633'  
Seam: Pittsburgh  
Owner: Murray

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**Office of Oil and Gas**

SEP 19 2017

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10/20/2017

WW-6B  
(04/15)

API NO. 47- 069 -  
OPERATOR WELL NO. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	656'	656'	614 sx/CTS
Coal	9 5/8"	New	J-55	36#	1972'	1972'	740 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	13337'	13337'	lead 529sx Tail 1599sx inside intermediate
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 6322'	Approx. 6322'	
Liners							

*S. BLO 6-21-17*

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	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing	2 3/8"	4.778"	0.190	Approx 8193'	Approx 8193'		
Liners							

**PACKERS**

Kind:	10K Arrowset AS-1X			
Sizes:	5 1/2"			
Depths Set:				

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WW-6B  
(10/14)

API NO. 47-069 - \_\_\_\_\_  
OPERATOR WELL NO. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

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. Run casing not less than 20' below void nor more than 50' 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. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 7.95

22) Area to be disturbed for well pad only, less access road (acres): 6.05

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 \*\*\*

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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.

## Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
	S001	accelerator	calcium chloride	10043-52-4
Intermediate	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
	D801	retarder	aromatic polymer derivative	proprietary
	D047	antifoam	polypropylene glycol	25322-69-4
Kick Off Plug	D167	fluid loss	aliphatic amide polymer	proprietary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgate)	8031-18-3
			chrystalline silica	14808-60-7
	D201	retarder	metal oxide	proprietary
			sulphonated synthetic polymer	proprietary
	D202	dispersant	formaldehyde (impurity)	proprietary
			polypropylene glycol	25322-69-4
Production-Lead	D046	antifoam	fullers earth (attapulgate)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	proprietary
			sodium polynaphthalene sulfonate	9008-63-3
	D065	dispersant	sodium sulfate	7757-82-6
			chrystalline silica	14808-60-7
	D201	retarder	metal oxide	proprietary
	D153	anti-settling	chrystalline silica	14808-60-7
Production-Tail				

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10/20/2017

June 15, 2017

Ms. Laura Adkins  
Office of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, WV 25304

**RE:** Proposed New Well Brian Dytko OHI 201H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Dytko's property, in Triadelphia District, Ohio County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1614

Thank you.

Sincerely,

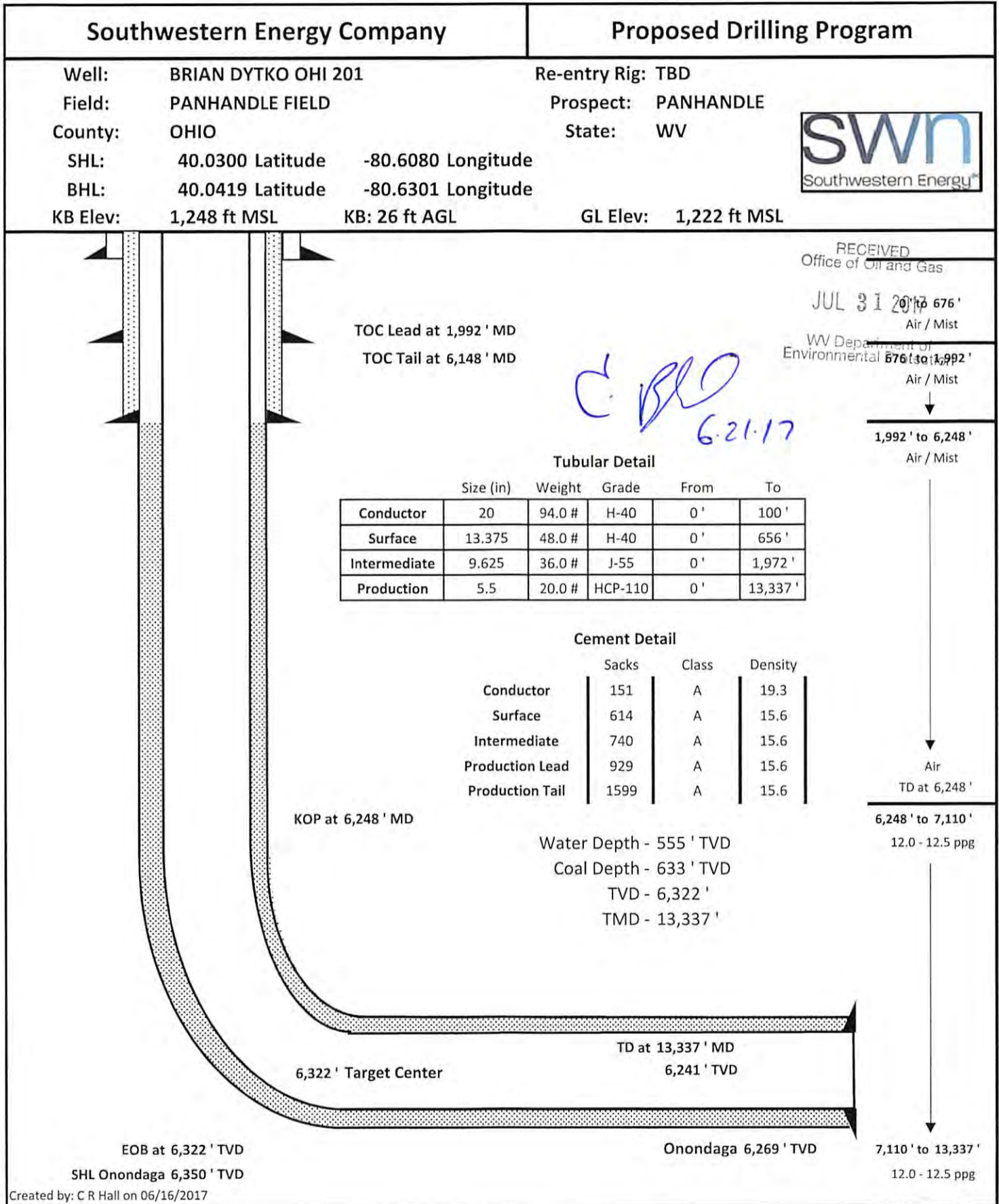
Dee Southall  
Regulatory Supervisor  
Southwestern Energy Production Company, LLC  
PO Box 1300  
Jane Lew, WV 26378

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WW-9  
(4/16)

API Number 47 - 69 - \_\_\_\_\_  
Operator's Well No. Brian Dylko OHI 201H

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

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FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

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Operator Name SWN Production Company, LLC OP Code 494512924  
Watershed (HUC 10) 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: closed loop system in place at this time- cuttings will be taken to a permitted landfill

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 \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ at next anticipated well, API # will be included with the WR-34/DDMR &/or permit addendum \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility)

Will closed loop system be used? If so, describe: yes

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? see attached sheets

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? meadow SWF-1032, SS grading SWF-4902, Northwestern SWF-1025, Short Creek 1034/WW0109517/CID28726, Carbon Limestone 28726-CID28725

Arden Landfill 10072, American 02-12954, Country Wide 38390/CID38390, Pine Grove 13688  
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 [Signature]

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 15th day of June, 2017

Brittany R Woody  
My commission expires 11/21/2018

Notary Public



SWN Production Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 7.94 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min. 2 Tons/acre or to correct to pH 6.05

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5 Tons/acre

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Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

**\*\*See Attachment**

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: \_\_\_\_\_

 BLO 6.21.17

Comments: \_\_\_\_\_

Title: oil and gas inspector

Date: 6.21.17

Field Reviewed? (  ) Yes (  ) No

## Drilling Mediums

Synthetic Oil

Brine

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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# WVD Seeding Specification

R<sup>2</sup> → V<sup>+</sup>  
A

To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi\_eddy@swn.com (please allow 7 to 10 days for delivery)

## NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%
All legumes are inoculated at 5x normal rate	
Apply @ 100lbs per acre April 16th- Oct. 14th	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat

## SOIL AMENDMENTS

10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
*unless otherwise dictated by soil test results	

## Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre  
 871' of 50' ROW/LOD is One Acre  
 622' of 70' ROW/LOD is One Acre

## Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

## Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

## ORGANIC PROPERTIES

Seed Mixture: SWN Production Organic Mix	SWN Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%
Apply @ 100lbs per acre April 16th- Oct. 14th	Apply @ 200lbs per acre Oct. 15th- April 15th
Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre

## WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre April 16th- Oct. 14th	Apply @ 50lbs per acre Oct. 15th- April 15th

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NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



SWN Production Company, LLC  
179 Innovation Drive  
Jane Lew, West Virginia 26378

**API NO. 47-XXX-XXXXX**  
**WELL NAME: Brian Dytko OHI 201H**  
**Valley Grove QUAD**  
**Triadelphia DISTRICT**  
**Ohio COUNTY, WEST VIRGINIA**

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Submitted by:

Dee Southall  Date: 6/15/2017

Title: Regulatory Supervisor SWN Production Co., LLC

Approved by:

 Date: 6.21.17

Title: Oil & Gas Inspector

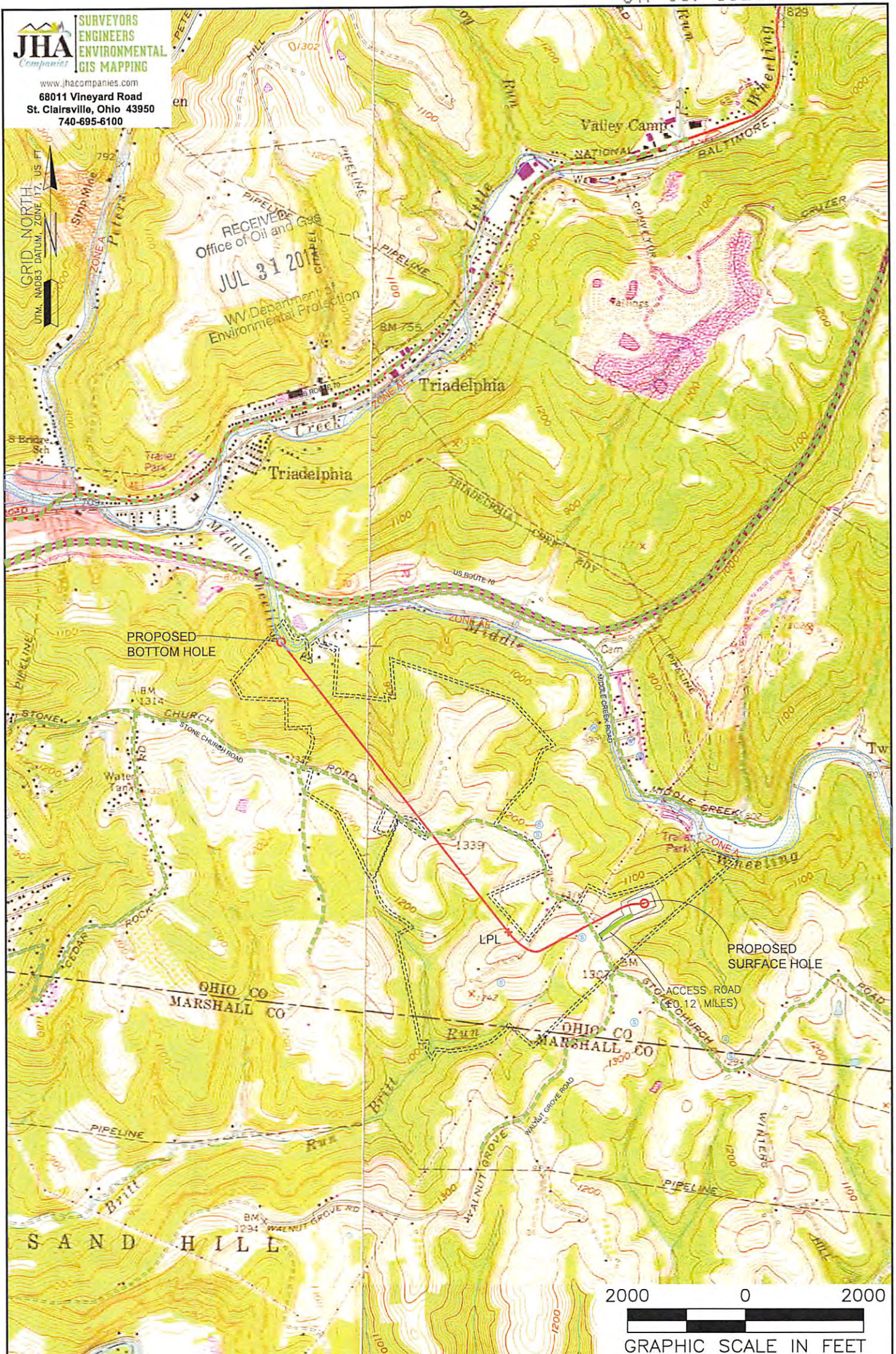
Approved by:

\_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

SWN PRODUCTION COMPANY, LLC

**JHA**  
 Companies  
**SURVEYORS  
 ENGINEERS  
 ENVIRONMENTAL  
 GIS MAPPING**  
 www.jhacompanies.com  
 68011 Vineyard Road  
 St. Clairsville, Ohio 43950  
 740-695-6100



**NOTES ON SURVEY**

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD TO PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

**WELL OPERATOR:**  
 SWN PRODUCTION COMPANY, LLC

**ADDRESS:**  
 P.O. BOX 1300 JANE LEW, WV 26378

**SURFACE OWNER:**  
 BRIAN DYTKO

**WELL (FARM) NAME:**  
 BRIAN DYTKO OHI

**COUNTY - CODE**  
 OHIO - 069

**USGS 7 1/2 QUADRANGLE MAP NAME**  
 VALLEY GROVE, WV & WHEELING, WV

**WELL #** 201H  
**SERIAL #** XXXX

**DISTRICT;**  
 TRIADELPHIA

Latitude: 40°02'30"

SURFACE HOLE 7003'

BOTTOM HOLE Latitude: 40°05'00"

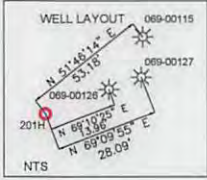


www.jhacompanies.com

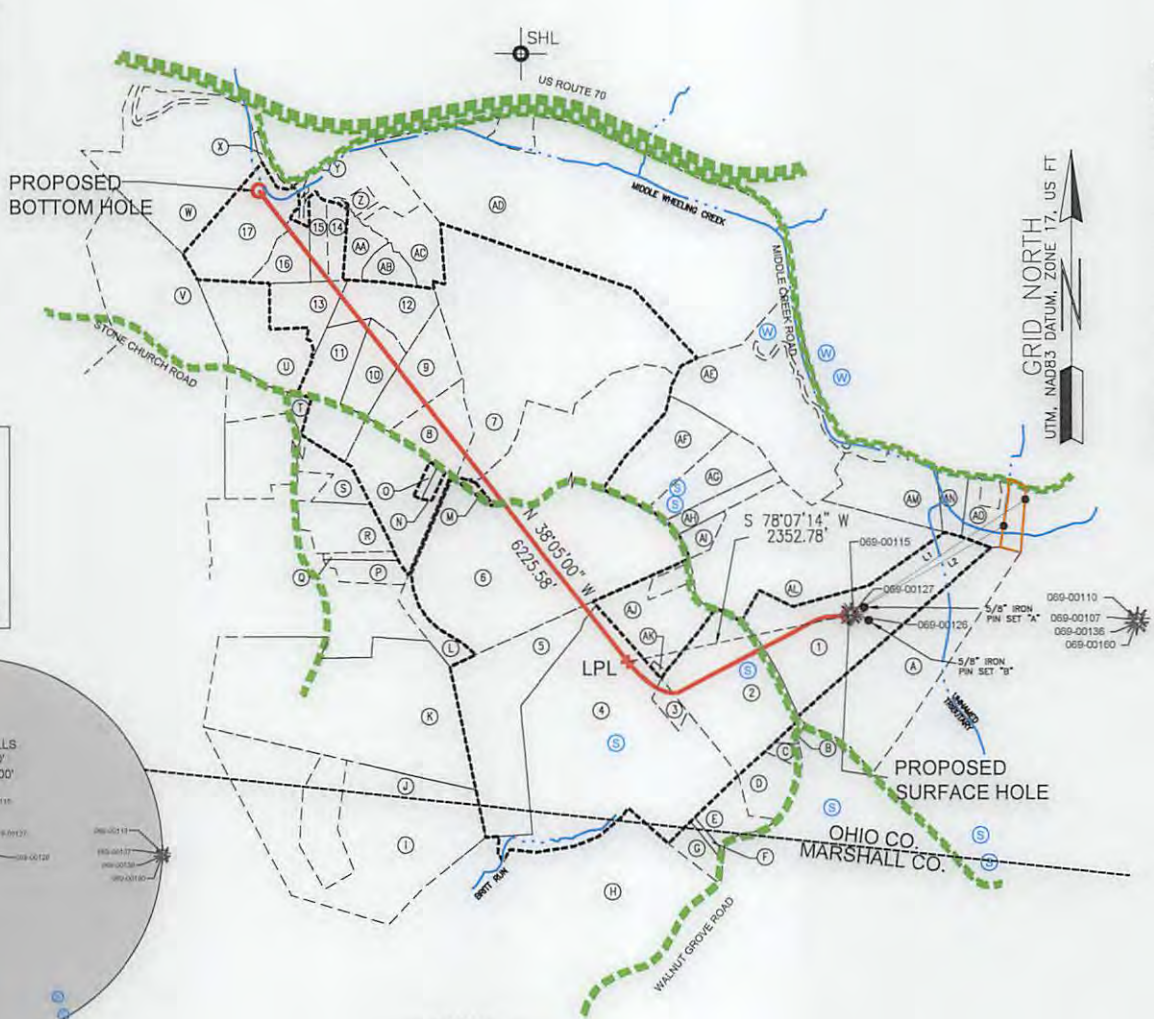
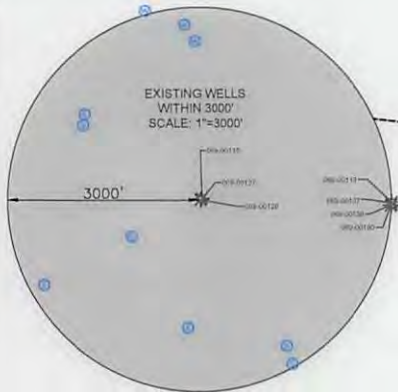
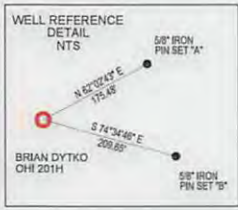
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

NOTES ON SURVEY

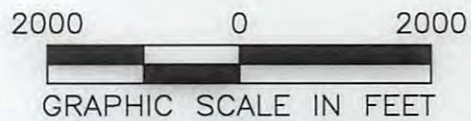
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



LINE	BEARING	DISTANCE
L1	N 86°45'31" E	2198.21'
L2	N 80°03'44" E	1882.57'



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4431161.53 EASTING: 533446.65
<b>LANDING POINT (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4431002.23 EASTING: 532747.70
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4432475.52 EASTING: 531552.86



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. 891

COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: BRIAN DYTKO OHI 201H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	API WELL #: 47 069 00251 STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: OHIO UPPER SOUTH ELEVATION: 1222.4'

DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: BRIAN J DYTKO ACREAGE: ±41.00

OIL & GAS ROYALTY OWNER: BRIAN J DYTKO ACREAGE: ±41.00

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,322 TD 10,539.75' MD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378	CITY: JANE LEW STATE: WV ZIP CODE: 26378


<b>LEGEND:</b> ○ 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	<b>REVISIONS:</b> DATE: 09-22-2017 DRAWN BY: C.THOMAS SCALE: 1" = 2000' DRAWING NO: 2017-221 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	BRIAN J DYTKO (S)/(R)	06-T18-0004.0001	41.00
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	CHARLES D. FISCHER, JR.	06-T18-0004.0000	32.90
3	TIMOTHY LEE KERCHER & G. E. KERCHER	06-T18-0002.0001	2.003
4	ROGER A. WHITE AND LISA J. WHITE	06-T18-0002.0000	87.809
5	HAROLD R. III GARRETT & CONNIE A. GARRETT	06-T18-0001.0001	36.10
6	PAUL PAVILACK	06-T18-0001.0000	109.84
7	MIDDLE CREEK GARAGE, INC.	06-T13-0003.0000	80.38
8	NORMA J. FARROW & J.R. FARROW	06-T12-0051.0000	26.23
9	WESBANCO TRUST & INVESTMENT	06-T12-0047.0000	12.21
10	DARLENE HUNTER	06-T12-0046.0002	7.89
11	RICHARD L. PELLARIN	06-T12-0046.0000	14.76
12	CAROL L. CONNOR	06-T12-0052.0000	11.50
13	TAMMY J. HACKENBERG	06-T12-0045.0000	9.03
14	TAMMY J. HACKENBERG	06-T12-0035.0000	2.81
15	E F KOEHL JR & D R KOEHL	06-T12-0034.0000	4.21
16	GERALD N MARSHALL	06-T12-0033.0001	4.80
17	SCOTT D KULL & CATHERINE J KULL	06-T12-0032.0000	17.63

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	THERESA L BLATT	06-T18-0017.0000	0.799
B	GREGORY W & J F GARDNER	06-T18-0025.0000	0.80
C	FRANCIS R MALTESE JR	06-T18-0026.0000	1.00
D	D G & B A REINKE	06-T18-0005.0000	10.33
E	PEARL A TAYLOR	12-2-21	5.00
F	HANS SCHMIDT	12-2-20	0.553
G	PEARL A. TAYLOR	12-2-19	2.905
H	JAMES AND CAROL LITMAN	12-2-1	91.641
I	PATRICK J. LENZ AND NIKKI J. LENZ	12-1-46	47.66
J	PATRICK J. LENZ AND NIKKI J. LENZ	06-T17-0013.0001	15.77
K	ROBERT H & M J DAVIS	06-T17-0013.0000	71.540
L	HAROLD R. GARRETT	06-T18-0001.0001	34.660
M	HILLTOP COMMUNITY ASSN	06-T13-0004.0000	0.050
N	KENNETH C HARTZELL	06-T12-0051.0002	0.75
O	KENNETH C HARTZELL	06-T12-0051.0001	0.75
P	STEVEN S.SACCO AND KELLEY B. SACCO	06-T17-0013.0011	3.62
Q	WILLIAM F. SACCO JR	06-T17-0013.0010	2.56
R	JACK E. & SUZANNE BARRY	06-T12-0050.0000	8.25
S	GARY V. & BRYANT AND L.P. BRYANT	06-T12-0048.0000	19.825
T	RICHARD L PELLARIN	06-T12-0046.0001	1.35
U	ROBERT L WOOD & C J RAPER	06-T12-0048.0003	18.85
V	RIDGE RUNNER FARM, LLC	06-T12-0014.0001	95.85
W	WEST VIRGINIA DEPART OF HWYS	06-T12-0031.0000	41.37
X	BOARD OF EDUCATION	07-TW6-0003.0000	6.13
Y	MARK A SINGER	06-T12-0033.0000	1.60
Z	PAUL W & V R BLAKE	06-T12-0038.0000	1.440
AA	CHERI & RANDY TAGGART	06-T12-0036.0000	4.272
AB	MOUNTAIN ESTATE BLAKE, LLC	06-T12-0037.0000	3.67
AC	BRADLEY W CLARK	06-T12-0044.0000	7.47
AD	OHIO VALLEY IND & BUS DEV CORP	06-T13-0026.0000	130.69
AE	JOHN W NOLAN SR ET AL	06-T13-0002.0002	42.45
AF	EDWARD MCCORD	06-T13-0002.0006	15.66
AG	JOHN EDWARD MCCORD	06-T13-0002.0003	12.10
AH	SETH AND HEATHER MCCORD	06-T13-0002.0004	4.30
AI	ROGER A & MARY K CLUTTER	06-T13-0002.0005	2.50
AJ	R.L. WHITE PROPERTIES, LLC	06-T18-0003.0002	16.296
AK	TIMOTHY LEE & G E KERCHER	06-T18-0003.0003	0.360
AL	WILLIAM G THOMAS	06-T18-0003.0000	46.50
AM	OK TRAILER COURT INC	06-T13-0005.0002	16.86
AN	ROBERT L JR & K S BOGARD	06-T13-0005.0007	4.07
AO	ROBERT L JR & K S BOGARD	06-T13-0005.0005	4.72

10/20/2017

REVISIONS:	COMPANY:			DATE: 07-27-2017	
				DRAWN BY: C.THOMAS	
	OPERATOR'S			SCALE: N/A	
	WELL #:			DRAWING NO: 2017-221	
	DISTRICT:			WELL LOCATION PLAT	
	TRIADDELPHIA		COUNTY:	STATE:	
			OHIO	WV	
	BRIAN DYTKO				
	OHI 201H				

WW-6A1  
(5/13)

Operator's Well No. Brian Dyko 201H

**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				

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Office of Oil and Gas

JUL 31 2017

WV Department of  
Environmental Protection

**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

By: \_\_\_\_\_

Its: \_\_\_\_\_

Staff Landman

#	TWP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BL/PG
1	6-718-4.1	Brian A. Dydo	41.00000	724935-000	Brian J. Dydo, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.5%	750/187
2	6-718-4	Charles D. Fisher, Jr.	32.90000	725119-000	Charles D. Fisher, Jr. and Karen Fisher, husband and wife	SWN Production Company, LLC	12.5%	855/482
3	6-718-2.1	Timothy Lee Kercher & G.E. Kercher	2.01000	720441-000	Roger A. White and Lisa J. White, husband and wife	Chesapeake Appalachia, L.L.C.	18%	815/219
4	6-718-2	Roger A. White and Lisa J. White	87.80000	730441-000	Roger A. White and Lisa J. White, husband and wife	Chesapeake Appalachia, L.L.C.	18%	815/219
5	6-718-1.1	Harold R. Garrett, III & C.A. Garrett	36.10000	725135-000	Harold R. Garrett, III and Coonie A. Garrett, his wife	Chesapeake Appalachia, L.L.C.	16%	857/218
6	6-718-1	Paul Pavlak	109.83000	726148-001	Richard K. Robinson, a widower	SWN Production Company, LLC	18%	855/512
7	6-718-3	Middle Creek Garage Inc.	80.278750	726778-000	Middle Creek Garage, Inc. a West Virginia Corporation	Chesapeake Appalachia, L.L.C.	14%	800/7
8	6-718-5.1	Norma J. Farrow & J.R. Farrow	26.21000	726708-000	Norma Jeanne Farrow and J. Richard Farrow, wife and husband	SWN Production Company, LLC	14%	857/255
9	6-718-4.7	Westbank Trust and Investment	12.210000	746189-000	Westbank Trust and Investment Services as Trustee of the Joseph Paul Forbey Trust Agreement, dated April 13, 1990	SWN Production Company, LLC	14%	721/791
10	6-718-46.2	Darlene Hunter	7.80000	727720-001	Darlene Hunter, single	Chesapeake Appalachia, L.L.C.	14%	804/703
10	6-718-46.2	Darlene Hunter	7.890000	727720-002	Douglas E. Freeman, single	Chesapeake Appalachia, L.L.C.	14%	804/707
11	6-718-46	Richard L. Pedain	14.26000	725131-000	Richard L. Pedain	Chesapeake Appalachia, L.L.C.	12.5%	792/708
12	6-718-5.2	Carol L. Conner	11.50000	726563-000	Carol L. Conner and Gerald Z. Conner, wife and husband	Chesapeake Appalachia, L.L.C.	14%	855/512
13	6-718-45	Tammy J. Hackenberg	9.031250	725121-000	Tammy J. Hackenberg	SWN Production Company, LLC	12.5%	855/524
14	6-718-35	Tammy J. Hackenberg	2.810000	724897-000	Tammy J. Hackenberg	Chesapeake Appalachia, L.L.C.	12.5%	791/441
15	6-718-34	E. F. Koehl, Jr. & D.R. Koehl	4.310000	745519-001 745519-002	Thomas A. Koehl Earl D. Mentle	Chesapeake Appalachia, L.L.C.	16%	801/789
16	6-718-33.1	Gerald N. Marshall	4.80000	730458-000	Gerald N. Marshall, a married man dealing in his sole and separate property	SWN Production Company, LLC	16%	904/75
17	6-718-32	Scott D. Ruff & Catherine J. Ruff	17.630000	720435-000	Scott Douglas Ruff and Catherine J. Ruff, husband and wife	Chesapeake Appalachia, L.L.C.	18%	815/739
						SWN Production Company, LLC		884/785
						Chesapeake Appalachia, L.L.C.		815/707
						SWN Production Company, LLC		883/228

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Office of Oil and Gas

SEP 19 2017



SWN Production Company, LLC  
P O Box 12359  
Spring, Texas 77391-2359  
www.swn.com

June 15, 2017

Ms. Laura Adkins  
WV DEP Office of Oil & Gas  
601 57<sup>th</sup> St., SE  
Charleston, WV 25304

**RE:** SWN's proposed New Well: Brian Dytko OHI 201H in Ohio County, West Virginia, Drilling under Walnut Grove Road.

Dear Ms. Adkins:

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 Walnut Grove 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,

Robert Walter  
Staff Landman  
SWN Production Company, LLC  
PO Box 12359  
Spring, TX 77391-2359

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Office of Oil and Gas

SEP 19 2017

WV Department of  
Environmental Protection

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

JUL 31 2017  
WV Department of  
Environmental Protection

Date of Notice Certification: 7/28/17

API No. 47- 069 -  
Operator's Well No. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

**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>533446.65</u>
County:	<u>069-Ohio</u>		Northing:	<u>4431161.53</u>
District:	<u>Triadelphia</u>	Public Road Access:	<u>Walnut Grove Road</u>	
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:	<u>Brian Dytko</u>	
Watershed:	<u>Upper Ohio South</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 type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" 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><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><b>OOG OFFICE USE ONLY</b></p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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**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.

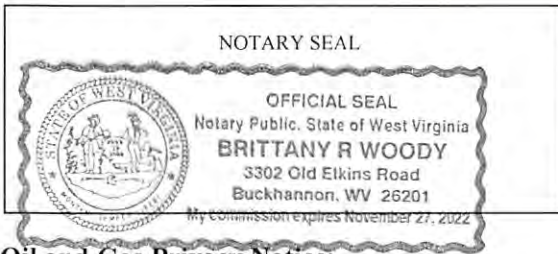
JUL 31 2017

WV Department of  
Environmental Protection  
Code § 22-6A

**Certification of Notice is hereby given:**

THEREFORE, I \_\_\_\_\_, 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>P.O. Box 1300</u>
By:	<u>Dee Southall</u>		<u>Jane Lew, WV 26378</u>
Its:	<u>Regulatory Supervisor</u>	Facsimile:	<u></u>
Telephone:	<u>304-884-1614</u>	Email:	<u>Dee_Southall@swn.com</u>



Subscribed and sworn before me this 15<sup>th</sup> day of June 2017.

Brittany R Woody Notary Public

My Commission Expires 11/27/22

**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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

WW-6A  
(9-13)

API NO. 47- 069 -  
OPERATOR WELL NO. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

**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:** 7/28/17 **Date Permit Application Filed:** 7/28/17

**Notice of:**

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

047-069-00251  
JUL 31 2017  
WV Department of Environmental Protection

**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: Brian Dytko  
Address: 1278 Stone Church Road  
Wheeling, WV 26003

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: Murray American Energy, Inc.  
Address: 6126 Energy Road  
Moundsville, WV 26041

COAL OPERATOR

Name: Shoemaker  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attachment #1  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

WW-6A  
(8-13)

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Office of Oil and Gas

API NO. 47- 069 -  
OPERATOR WELL NO. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

JUL 31 2017

**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 production well.

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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

10/20/2017



WW-6A  
(8-13)

API NO. 47-069 -  
OPERATOR WELL NO. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

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 57<sup>th</sup> 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.**

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JUL 31 2017  
WV Department of  
Environmental Protection

10/20/2017

**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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Office of Oil and Gas  
JUL 31 2017  
WV Department of  
Environmental Protection

WW-6A  
(8-13)

047-069-00251  
API NO. 47- 069 -  
OPERATOR WELL NO. Brian Dytko OHI 201H  
Well Pad Name: Brian Dytko OHI PAD

**Notice is hereby given by:**

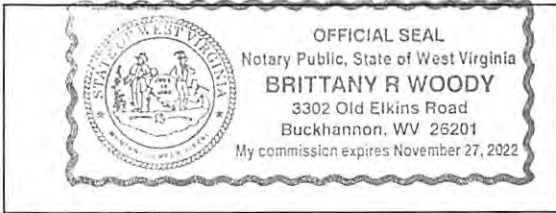
Well Operator: SWN Production Co., LLC  
Telephone: 304-884-1614  
Email: Dee\_Southall@swn.com



Address: P.O. Box 1300  
Jane Lew, WV 26378  
Facsimile: \_\_\_\_\_

**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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).



Subscribed and sworn before me this 15<sup>th</sup> day of June 2017.  
Brittany R Woody Notary Public  
My Commission Expires 11/27/22

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JUL 31 2017  
WV Department of  
Environmental Protection

047-069-00251

Attachment #1

**Brian Dytko OHI Pad - Water Purveyors w/in 1500'**

**Sources**

**Landowner**

**Address**

Charles D Fischer Jr

1235 Stone Church Road, Wheeling WV 26003 1 spring

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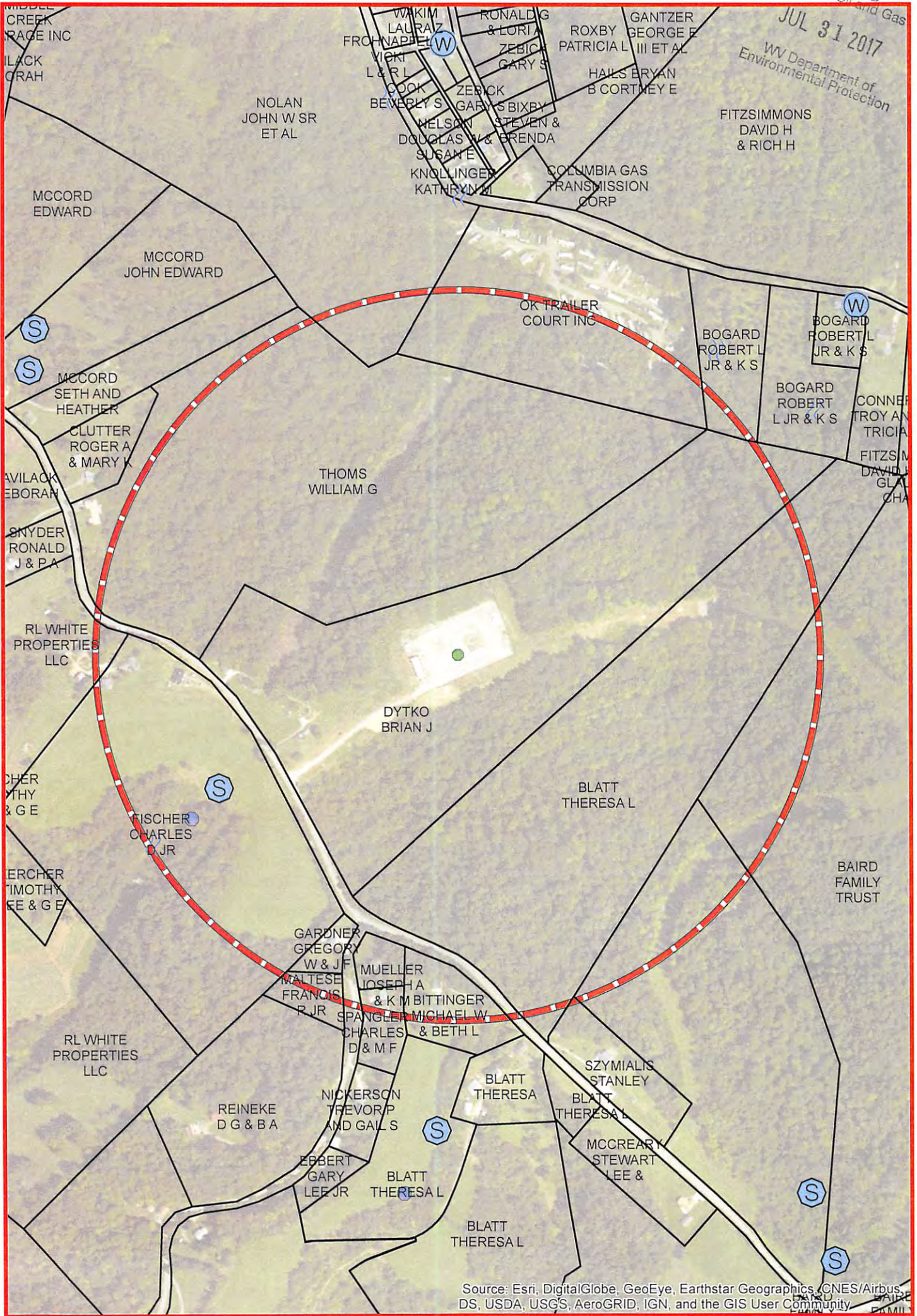
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10/20/2017

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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.

10/20/2017

<b>Water Purveyor Map</b>			<b>Well Pad:</b> Brian Dytko OHI Pad	<b>County:</b> OHIO
Map by: speart	Date: 7/11/2017		<b>Brian Dytko OHI Coordinates:</b> 40.029882, -80.608179	
NAD 1983 BLM Zone 17N ftUS				

**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:** 06/19/2017      **Date Permit Application Filed:** 7/28/17

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

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

JUL 31 2017

WV Department of  
Environmental Protection

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: Brian Dytko  
Address: 1278 Stone Church Rd  
Wheeling, WV 26003

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: West Virginia      UTM NAD 83      Easting: 533,446.65  
County: Ohio      Northing: 4,431,161.53  
District: Triadelphia      Public Road Access: Stone Church Road  
Quadrangle: Valley Grove      Generally used farm name: Brian Dytko  
Watershed: Wheeling Creek

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: PO Box 1300  
Jane Lew, WV 26378  
Telephone: 304-517-6603  
Email: Michael\_Yates@swn.com  
Facsimile: 304-884-1691

Authorized Representative: Mike Yates  
Address: PO Box 1300  
Jane Lew, WV 26378  
Telephone: 304-517-6603  
Email: Michael\_Yates@swn.com  
Facsimile: 304-884-1691

**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](mailto: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:** 06/19/2017 **Date Permit Application Filed:** 7/28/17

**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: Brian Dytko  
 Address: 1278 Stone Church Rd  
Wheeling, WV 26003

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Office of Oil and Gas  
**JUL 31 2017**  
 WV Department of  
Environmental Protection

**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>West Virginia</u>	UTM NAD 83 Easting: <u>533,446.65</u>
County: <u>Ohio</u>	Northing: <u>4,431,161.53</u>
District: <u>Triadelphia</u>	Public Road Access: <u>Stone Church Road</u>
Quadrangle: <u>Valley Grove</u>	Generally used farm name: <u>Brian Dytko</u>
Watershed: <u>Wheeling Creek</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: SWN Production Company, LLC  
 Telephone: 304-517-6603  
 Email: Michael\_Yates@SWN.com

Address: PO Box 1300, 179 Innovation Drive  
Jane Lew, WV 26378  
 Facsimile: 304-884-1691

**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](mailto:depprivacyofficer@wv.gov).

**10/20/2017**



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110  
 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jim Justice  
 Governor

Thomas J. Smith, P. E.  
 Secretary of Transportation/  
 Commissioner of Highways

Reissued July 18, 2017

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

Subject: DOH Permit for the Brian Dytko Pad, Ohio County  
 Brian Dytko OHI 201H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0009 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 23 SLS.

The operator has signed an 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 January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.  
 Regional Maintenance Engineer  
 Central Office Oil & Gas Coordinator

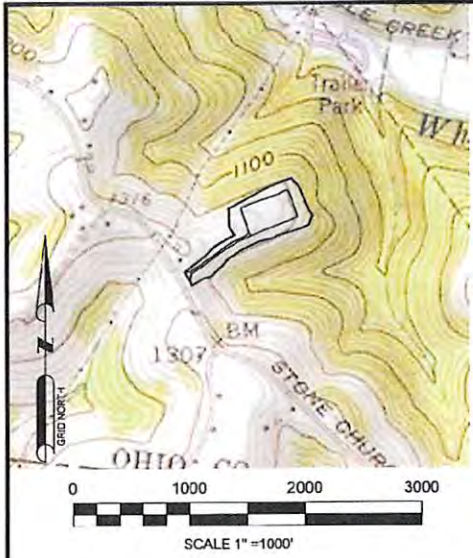
Cc: Brittany Woody  
 Southwestern Energy  
 CH, OM, D-6  
 File

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 JUL 31 2017  
 WV Department of  
 Environmental Protection



Product Name	Product Use	Chemical Name	CAS Number
EC 6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
A264 (Schlumberger)	Corrosion Inhibitor	Methanol	67-56-1
		Aliphatic Acids	Proprietary
		Prop-2-yn-1-ol	107-19-7
		Aliphatic Alcohols, Ethoxylated #1	Proprietary
Myacide GA 25 (Schlumberger)	Biocide	Water	7732-18-5
		Glutaral	111-30-8
Scale Inhibitor B317 (Schlumberger)	Scale Inhibitor	Trisodium Ortho Phosphate	7601-54-9
		Ethane-1,2-diol	107-21-1
H215 (Schlumberger)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
J218 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0
EB-Clean* J475 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0
Water Gelling Agent J580 (Schlumberger)	Gel	Carbohydrate Polymer	Proprietary
Friction Reducer J609W (Schlumberger)	Friction Reducer	Ammonium Sulfate	7783-20-2
		Urea	57-13-6
Crosslinker J610 (Schlumberger)	Crosslinker	Potassium Hydroxide	1310-58-3
		Aliphatic Polyol	Proprietary
Iron Stabilizer L58 (Schlumberger)	Iron Stabilizer	Sodium Erythorbate	6381-77-7
40/70-Mesh Sand S012 (Schlumberger)	Sand	Crystalline Silica	14808-60-7
Sand S100 (Schlumberger)	Sand	Crystalline Silica	14808-60-7
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
SSA-2 (Halliburton)	Sand	Crystalline Silica	14808-60-7
FR-76 (Halliburton)	Friction Reducer	Inorganic salt	64742-47-8
		Hydrotreated light petroleum distillate	
LCA-1 (Halliburton)		Hydrotreated light petroleum distillate	Proprietary
SP BREAKER (Halliburton)	Breaker	Sodium Persulfate	7775-27-1
HAI-150E (Halliburton)	Corrosion Inhibitor	Methanol	NA
		Aliphatic Acids	
		Prop-2-yn-1-ol	
		Aliphatic Alcohols, Ethoxylated #1	
Hydrochloric Acid 10-30% (Halliburton)		Hydrochloric Acid	7647-01-0
WG-36 Gelling Agent (Halliburton)	Gel	Polysaccharide	9000-30-0
BC-140C (Halliburton)	Crosslinker		NA

# BRIAN DYT KO PAD CONSTRUCTION AS-BUILT TRIADELPHIA DISTRICT, OHIO COUNTY, WV MAY 17, 2017



**WVDEP OOG  
ACCEPTED AS-BUILT**  
*VDJ* 9 / 18 / 2017

**SHEET INDEX**

C-001	COVER SHEET
C-101	EVACUATION ROUTE / PREVAILING WINDS
C-102	EVACUATION ROUTE / PREVAILING WINDS
C-201	CONSTRUCTION/AS-BUILT OVERVIEW
C-301	CONSTRUCTION/AS-BUILT
C-302	CONSTRUCTION/AS-BUILT
C-401	CONSTRUCTION/AS-BUILT ACCESS ROAD PROFILE
R-501	RECLAMATION OVERVIEW
R-601	RECLAMATION PLAN
R-602	RECLAMATION PLAN
R-701	RECLAMATION DETAILS
R-702	RECLAMATION DETAILS
R-703	RECLAMATION DETAILS

REVISION	DATE

**COORDINATES:**  
SITE ENTRANCE  
(NAD 83)  
LAT: 40.028480  
LONG: -80.610666

AT DYT KO PAD  
(NAD 83)  
LAT: 40.029458  
LONG: -80.608736

CENTER OF PAD  
(NAD 83)  
LAT: 40.029975  
LONG: -80.608160

GATHERING AREA  
(NAD 83)  
LAT: 40.028450  
LONG: -80.610587

**EXISTING WELLS:**

DYT KO 1H  
API 4706900115  
(NAD 83)  
LAT: 40.029984  
LONG: -80.607884

DYT KO 6H  
API 4706900126  
(NAD 83)  
LAT: 40.030022  
LONG: -80.607949

DYT KO 8H  
API 4706900071  
(NAD 83)  
LAT: 40.029956  
LONG: -80.607978

DYT KO 10H  
API 4706900127  
(NAD 83)  
LAT: 40.030036  
LONG: -80.607903

*E-Blk  
6/21/17*



LOD	
DESCRIPTION	ACRES
ROAD DISTURBED AREA	1.89
PAD DISTURBED AREA	6.05
TOTAL	7.94



**SWN** Production Company, LLC

**SWN** Production Company LLC

**BRIAN DYT KO  
COVER SHEET C-001  
TRIADELPHIA DISTRICT, OHIO COUNTY, WV.**

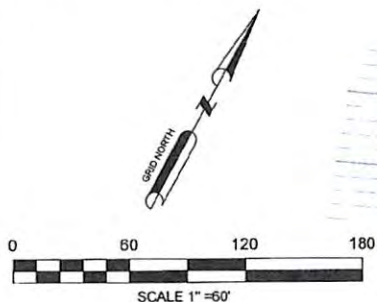
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
EPB	05-17-17	MSS	05-17-17	JPD	05-17-17



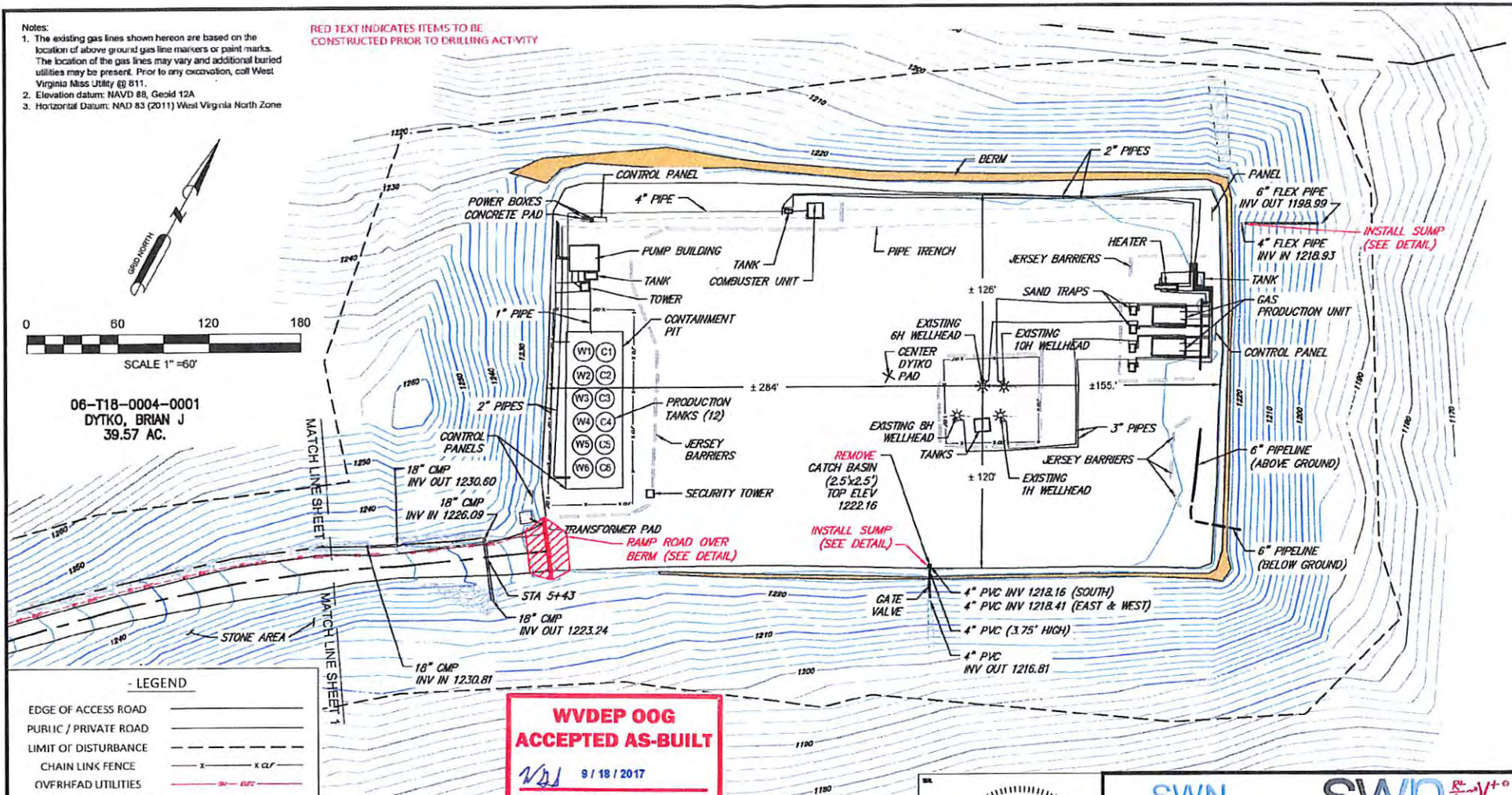
047-069-00251

- Notes:
- The existing gas lines shown hereon are based on the location of above ground gas line markers or paint marks. The location of the gas lines may vary and additional buried utilities may be present. Prior to any excavation, call West Virginia Miss Utility @ 811.
  - Elevation datum: NAVD 88, Geoid 12A
  - Horizontal Datum: NAD 83 (2011) West Virginia North Zone

RED TEXT INDICATES ITEMS TO BE CONSTRUCTED PRIOR TO DRILLING ACTIVITY



06-T18-0004-0001  
DYTKO, BRIAN J  
39.57 AC.



LEGEND

EDGE OF ACCESS ROAD	---
PUBLIC / PRIVATE ROAD	---
LIMIT OF DISTURBANCE	---
CHAIN LINK FENCE	x - x - x
OVRHEAD UTILITIES	--- (W) --- (E) --- (C)
UNDERGROUND UTILITIES	---
PROPERTY LINES	---
CL ACCESS ROAD	---
CONTOUR MAJOR ASBUILT	---
CONTOUR MINOR ASBUILT	---
CONTOUR MAJOR EXISTING	---
CONTOUR MINOR EXISTING	---
PAD BERM	---
EDGE OF TREES	---

**WVDEP OOG  
ACCEPTED AS-BUILT**

*WJ* 9 / 18 / 2017

PRODUCTION TANKS (UTM METERS)		PRODUCTION TANKS CONT. (UTM METERS)	
W1	4431139.427 533374.841	C1	4431140.918 533378.939
W2	4431134.967 533376.591	C7	4431136.680 533380.614
W3	4431130.622 533378.225	C3	4431132.335 533382.248
W4	4431126.355 533380.153	C4	4431128.068 533384.176
W5	4431122.073 533381.715	C5	4431123.786 533385.738
W6	4431117.821 533383.534	C6	4431119.534 533387.558



**SWN**  
Production Company, LLC

**SWN**  
Production Company, LLC

**BRIAN DYTKO**  
**CONSTRUCTION/AS-BUILT C-302**  
TRIADELPHIA DISTRICT, OHIO COUNTY, WV.

DATE	05-17-17	CHECKED	MS	DATE	05-17-17	APPROVED	JPD	DATE	05-17-17
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DRAWING: 2017-300 Dytko As-Built.dwg

REGISTERED PROFESSIONAL ENGINEERS  
LICENSED UNDER THE  
STATE OF WEST VIRGINIA  
www.jha.com