



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

October 14, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-6900197, issued to SWN PRODUCTION COMPANY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: BRIAN DYTKO OHI 206H
Farm Name: DYTKO, BRIAN

API Well Number: 47-6900197

Permit Type: Horizontal 6A Well

Date Issued: 10/14/2015

Promoting a healthy environment.

10/16/2015

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. 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.
8. 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.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW-6B
(10/14)

SEP 10 2015

API NO. 47- 89 _____
OPERATOR WELL NO. Brian Dyko OHI 206H
Well Pad Name: Brian Dyko OHI Pad

WV Department of
Environmental Protection

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 69-Ohio Tridelphtg Valley Grove
Operator ID County District Quadrangle

2) Operator's Well Number: Brian Dyko OHI 206H Well Pad Name: Brian Dyko OHI Pad

3) Farm Name/Surface Owner: Brian Dyko Public Road Access: _____

4) Elevation, current ground: 1223' Elevation, proposed post-construction: 1223'

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 Associated Pressure(s):
Target Formation- Marcellus, Target Top TVD-6323', Target Base TVD- 6358', Anticipated Thickness-35', Associated Pressure-3801

8) Proposed Total Vertical Depth: 6335'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16,663'

11) Proposed Horizontal Leg Length: 4514'

12) Approximate Fresh Water Strata Depths: 302'

13) Method to Determine Fresh Water Depths: from nearby water wells

14) Approximate Saltwater Depths: 952'


15) Approximate Coal Seam Depths: 652'

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: 652'
Seam: Pittsburgh
Owner: Murray

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	J-55	54.5#	450'	450'	418 sx/CTS
Coal	9 5/8"	New	J-55	40#	1970'	1970'	752 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	16,663'	16,663'	Lead 1045 sx 2321 tail sx/100' inside 
Tubing	2 3/8"	New	P-110	4.7#	Approx. 6335'	Approx. 6335'	
Liners							

4706900197

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	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	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

E. B. D.
8.12.15

PACKERS

Kind:	10K Arrowset AS1-X			
Sizes:	5 1/2"			
Depths Set:				

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AUG 17 2015 10/16/2015

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 50' below void nor more than 100' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50'-75' 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): 7.94

22) Area to be disturbed for well pad only, less access road (acres): 5.01

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 ***

4706900197

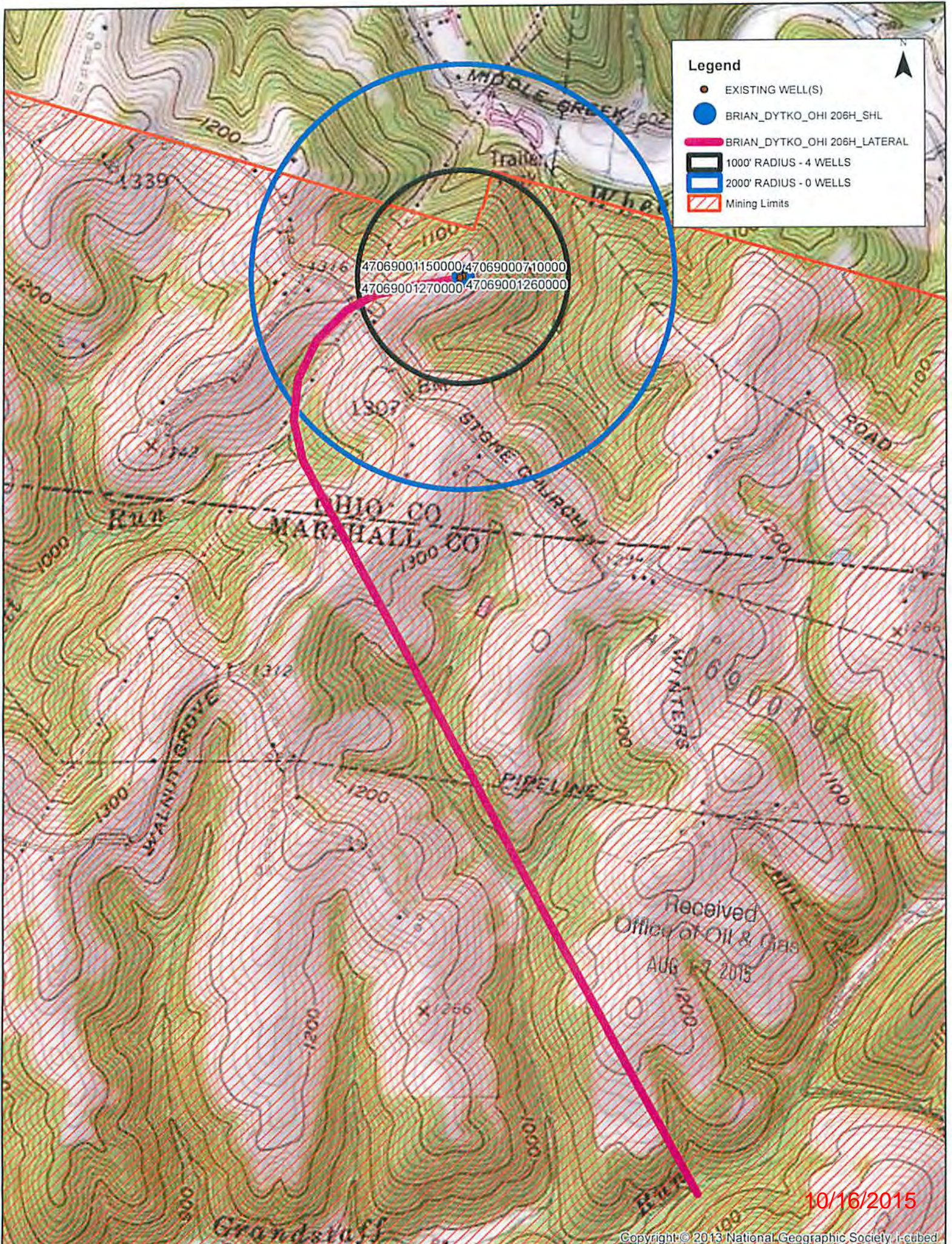
25) Proposed borehole conditioning procedures:

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.

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10/16/2015



Legend

- EXISTING WELL(S)
- BRIAN_DYTKO_OHI 206H_SHL
- BRIAN_DYTKO_OHI 206H_LATERAL
- 1000' RADIUS - 4 WELLS
- 2000' RADIUS - 0 WELLS
- ▨ Mining Limits

47069001150000 47069000710000
 47069001270000 47069001260000

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 AUG 17 2015

10/16/2015

Schlumberger Cement Additives

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

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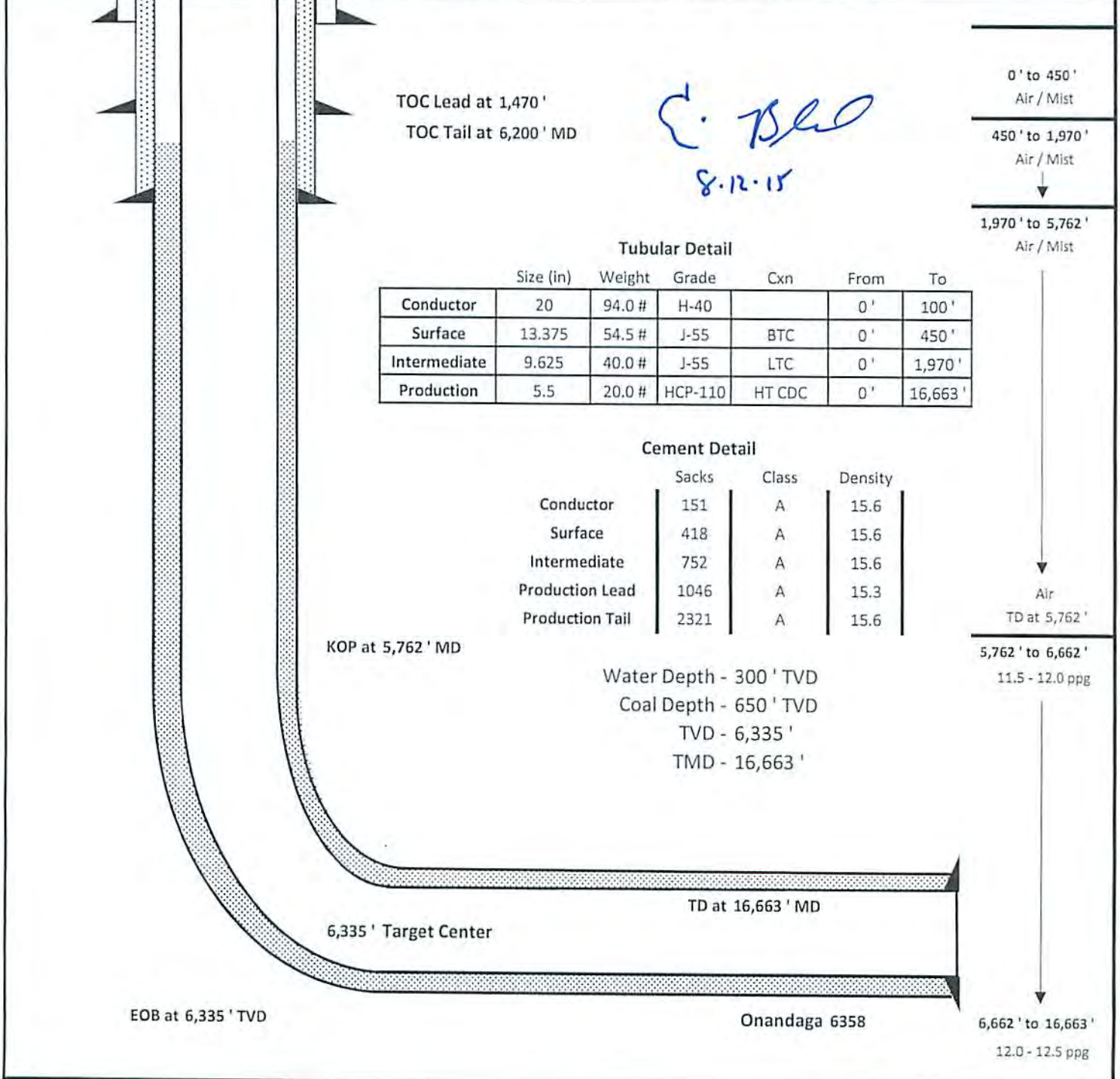
SEP 15 2015

WV Department of
Environmental Protection

4706900197

Southwestern Energy Company **Proposed Drilling Program**

Well: BRIAN DYTOKO OHI 206 Re-entry Rig: 0
 Field: PANHANDLE FIELD Prospect: PANHANDLE
 County: OHIO State: WV
 SHL: 40.029941 Latitude -80.608023 Longitude
 BHL: 40.006185 Latitude -80.600063 Longitude
 KB Elev: 1,249 ft MSL KB: 26 ft AGL GL Elev: 1,223 ft MSL



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 10/16/2015
 AUG 17 2015

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

4706900197

Operator Name SWN Production Co., LLC OP Code 49447757

Watershed (HUC 10) Wheeling Creek Quadrangle Valley Grove

Elevation 1223' County 69-Ohio District Tridelphia

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 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317)
- 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 SOB 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- 1026, Short Creek 1034/WW/109517/CID26726, Carbon Limestone 26726/CID28726
Arden Landfill 10072, American U2-12954, Country wide 38390/CID38390, Pine Grove 13688

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 _____

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 11th day of August

Elsie M. Cox

My commission expires 12-9-2022



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10/16/2015
AUG 17 2015

SWN Production Co., 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 6.5

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5 Tons/acre

Seed Mixtures

4706900197

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
White Grove	15	White Grove	15
Red Top	15	Red Top	15
Orchard Grass	20	Orchard Grass	20

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Oil and Gas Inspector Date: 8.12.15

Field Reviewed? Yes No

10/16/2015
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AUG 17 2015


Marcellus Well Drilling Procedures
And Site Safety Plan

SWN Production Co., LLC

47 - 051 -
Well name: Brian Dytko OHI 206H
Valley Grove, Quad
Tridelphia, District
Ohio County, West Virginia

4706900197

Submitted by:


Danielle Southall

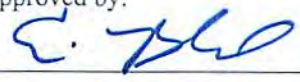
8/7/2015

Date:

Title Regulatory Supervisor

SWN Production Co., LLC

Approved by:


Title: Oil & Gas Inspector

Date:

8.12.15

Approved by:

Date:

Title:

SWN Production Co., LLC – Confidential

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AUG 17 2015
10/16/2015



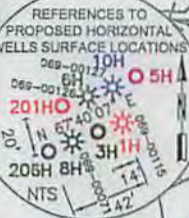
320 O'Bryan Lane • Van Buren, AR 72956
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 31°38'06" W	316.50'	SHL TO LANDMARK	FOUND 1/2" REBAR
L2	N 28°31'21" E	399.36'	SHL TO LANDMARK	FOUND 1/2" REBAR
L3	N 44°12'18" E	48.23'	SHL TO REF. PNT.	BRIAN DYTKO OHI 10H WELL HEAD (069-00127)
L4	N 67°06'21" E	13.61'	SHL TO REF. PNT.	BRIAN DYTKO OHI BH WELL HEAD (069-00071)
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	S 80°36'08" W	573.00'		SHL TO LP
L6	CHD: S 26°18'00" W	CHD: 1925.65'	2246.61'	LP TO PT1
L7	S 28°00'00" E	2090.67'		PT1 TO PC2
L8	CHD: S 29°29'43" E	CHD: 149.51'	149.52'	PC2 TO PT2
L9	S 30°59'27" E	850.48'		PT2 TO PC3
L10	CHD: S 29°29'36" E	CHD: 149.52'	149.53'	PC3 TO PT3
L11	S 28°00'00" E	4513.67'		PT3 TO BHL

Latitude: 40°02'30"

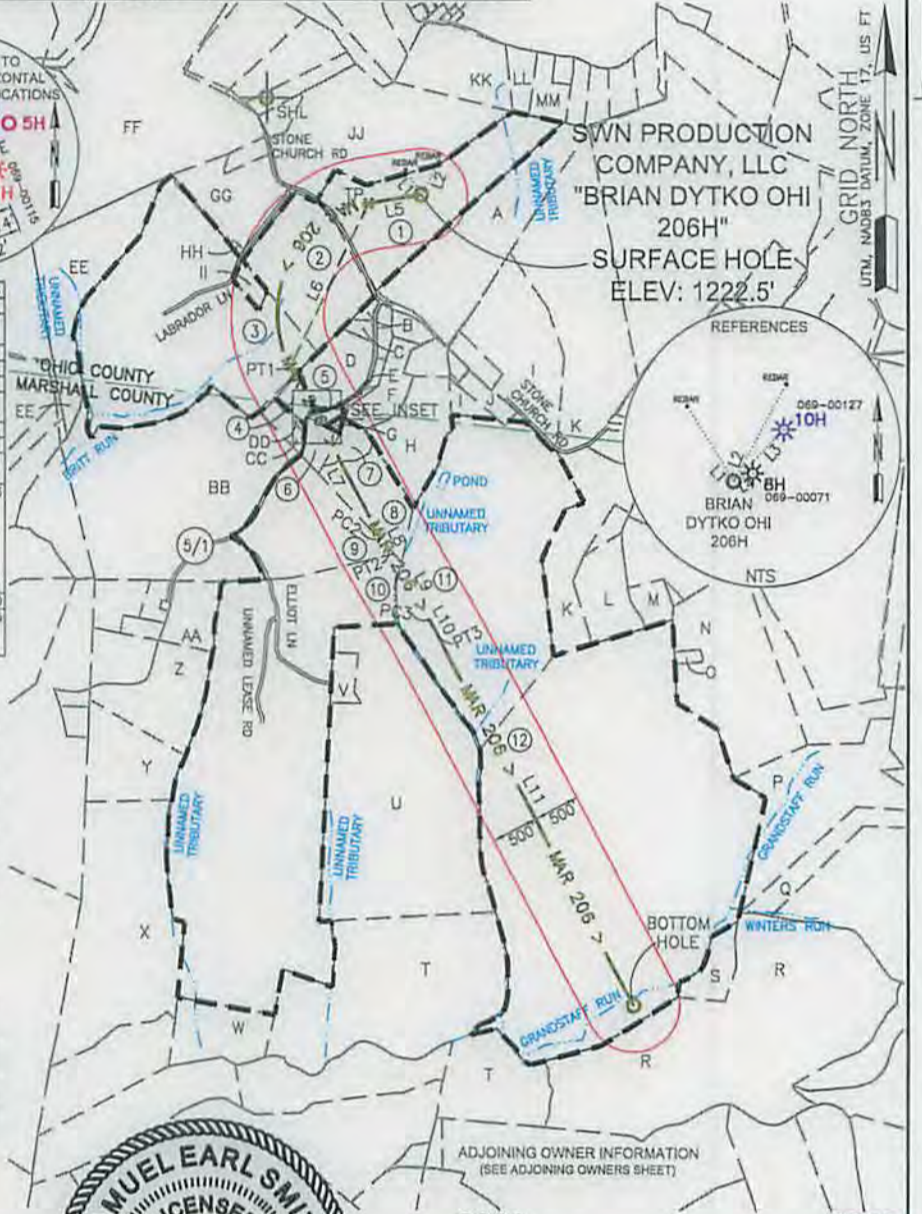
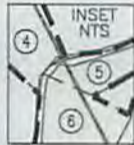
Longitude: 80°35'00"



TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	BRIAN J. DYTKO (S/R)	6-118-4-1	41.00
2	CHARLES D. FISCHER JR. (S)	6-118-4	32.90
3	CHARLES D. FISCHER JR. & KAREN FISCHER (R)		
4	ROGER A. WHITE & LISA J. WHITE (S/R)	6-118-2	67.81
5	PEARL A. TAYLOR (S/R)	12-2-21	5.00
6	ANNETTE L. LAWRENCE (S/R)	12-2-18	1.79
7	ROBERT T. SEIDLER ET UX (S)	12-2-17	2.00
8	ROBERT T. SEIDLER & LISA M. SEIDLER (R)		
9	THERESA L. BLAIT (S/R)	12-2-22	5.92
10	THERESA L. BLAIT (S/R)	12-2-23	21.03
11	SCOTT U. VELLEKNOWETH ET UX (S)	12-2-11	25.36
12	SCOTT U. VELLEKNOWETH & CHRISTINA VELLEKNOWETH (R)		
13	JAMES L. LITMAN & CAROLE J. LITMAN (S)	12-2-10	166.26
14	ROBERT B. ELLIOTT (R)		
15	MABLE L. RIGGLE (R)		
16	ELM GROVE UNITED METHODIST CHURCH (R)		
17	GREGORY WILLIAMS (R)		
18	DOLORES E. WILLIAMS (R)		
19	SALVATION ARMY (R)		
20	BETTY IDELE BAIRD (S/R)	12-2-2	124.50
21	DONALD TUBAUGH & EDNA TUBAUGH (S)	12-2-5	215.25
22	NORMA TUBAUGH, DANNISA TUBAUGH, CLARENCE W. TUBAUGH, & GARY W. GLESSNER (R)		

- NOTES ON SURVEY**
- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE OPS.
 - 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 PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ FT. WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO 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.

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,431,153.968
EASTING: 533,444.466
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,431,125.450
EASTING: 533,272.161
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,428,520.337
EASTING: 534,135.502



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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. 2315

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #: BRIAN DYTKO OHI 206H
API WELL #: 47 STATE 69 COUNTY 00197 HGA PERMIT

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

WATERSHED: WHEELING CREEK ELEVATION: 1222.5'

DISTRICT: TRIADDELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE

SURFACE OWNER: BRIAN DYTKO ACREAGE: ±41.00

OIL & GAS ROYALTY OWNER: BRIAN 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: 6,335' TVD 16,663' TMD

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

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	△ ADDED OIL & GAS ROYALTY OWNER & ACREAGE, 08-06-2015	08-10-2015
⊙ EXISTING / PRODUCING WELLHEAD	△ ADDED ADJACENT PARCELS, 08-14-2015	SEE INSET SHEET 2
⊙ ABANDONED WELL	△ ADDED ADJACENT PARCEL OWNERS, TAX MAP PARCEL NUMBER, & ACREAGE, 09-23-2015	DRAWN BY: C. BROWN
⊙ PLUGGED & ABANDONED WELL		SCALE: 1" = 2000'
△ CUT CONDUCTOR		DRAWING NO: 59100
		WELL LOCATION PLAT

**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
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"SEE EXHIBIT A"

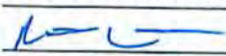
4706900197

**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 L.L.C
 By: 
 Its: Robert Walter, Landman

Received
Office of Oil and Gas **10/16/2015**
AUG 17 2015

EXHIBIT "A"
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator
Brian Dytko Southwest 206H
Ohio County Marshall County, West Virginia

#	TMP	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BX/PGE
1)	6-T18-4.1	41.000	1-265414-000	Brian J. Dytko, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.5%	790/197
					SWN Production Company, LLC		885/482
2)	6-T18-4	32.900	1-268349-000	Charles D. Fischer, Jr. and Karen Fischer, husband and wife	Chesapeake Appalachia, L.L.C.	12.5%	791/446
					SWN Production Company, LLC		885/500
3)	6-T18-2	87.809	1-325611-000	Roger A. White and Lisa J. White, husband and wife	Chesapeake Appalachia, L.L.C.	18%	815/229
					SWN Production Company, LLC		883/228
4)	12-2-21	5.000	1-385120-000	Pearl A. Taylor, a married woman dealing in her sole and separate property	TriEnergy Holdings, LLC	16%	711/333
					NPAR		24/430
					Chevron		756/332
					Chesapeake Appalachia, L.L.C.		80/532
					SWN Production Company, LLC		33/110
5)	12-2-18	1.794	1-312662-000	Annette L. Lawrence, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18%	723/531
					SWN Production Company, LLC		33/110
6)	12-2-17	2.000	1-312888-000	Robert T. Seidler and Lisa M. Seidler, his wife	Chesapeake Appalachia, L.L.C.	18%	723/154
					SWN Production Company, LLC		33/110
7)	12-2-22	5.924	1-312627-000	Theresa L. Blatt, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18%	725/569
					SWN Production Company, LLC		33/110
8)	12-2-23	21.031	1-312627-000	Theresa L. Blatt, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18%	725/569
					SWN Production Company, LLC		33/110
9)	12-2-1.1	25.959	1-272576-000	Scott U. Vollenoweth and Christina Vollenoweth, husband and wife	Chesapeake Appalachia, L.L.C.	14%	789/371
					SWN Production Company, LLC		33/110
10)	12-2-10	166.260	1-268314-000	Robert B. Ellett, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.5%	676/179
			1-312581-001	Mable L. Riggie, a widow	SWN Production Company, LLC		33/110
					Chesapeake Appalachia, L.L.C.	18%	722/602
			1-312581-002	Elm Grove United Methodist Church	SWN Production Company, LLC		33/110
					Chesapeake Appalachia, L.L.C.	18%	722/606
			1-312581-003	Gregory Williams, a single man	SWN Production Company, LLC		33/110
					Chesapeake Appalachia, L.L.C.	18%	723/376
			1-312581-004	Dolores E. Williams, divorced and not remarried	SWN Production Company, LLC		33/110
					Chesapeake Appalachia, L.L.C.	18%	723/382
			1-312581-005	Salvation Army	SWN Production Company, LLC		33/110
					Chesapeake Appalachia, L.L.C.	18%	723/310
					SWN Production Company, LLC		33/110
11)	12-2-2	124.500	1-312525-000	Betty Idola Baird, divorced and not remarried	Chesapeake Appalachia, L.L.C.	18%	718/407
					SWN Production Company, LLC		33/110
12)	12-2-5	215.250	1-264256-000	Norma Tubaugh, wife, Dawnisa Tubaugh, daughter, Clarence W. Tubaugh, son, and Gary W. Glessner, grandson	Chesapeake Appalachia, L.L.C.	12.5%	673/538
					SWN Production Company, LLC		33/110

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AUG 17 2015

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320 O'Bryan Lane • Van Buren, AR 72956
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 31°38'06" W	318.50'	SHL TO LANDMARK	FOUND 1/2" REBAR
L2	N 28°31'21" E	399.36'	SHL TO LANDMARK	FOUND 1/2" REBAR
L3	N 44°12'18" E	48.23'	SHL TO REF. PNT.	BRIAN DYTKO OH 10H WELL HEAD (089-00127)
L4	N 57°05'21" E	13.51'	SHL TO REF. PNT.	BRIAN DYTKO OH 8H WELL HEAD (089-00071)
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	S 80°36'08" W	573.00'		SHL TO LP
L6	CMD: S 26°18'00" W	1925.65'	2246.81'	LP TO PT1
L7	S 26°00'00" E	2080.67'		PT1 TO PC2
L8	CMD: S 29°29'43" E	149.51'	149.52'	PC2 TO PT2
L9	S 30°58'27" E	850.48'		PT2 TO PC3
L10	CMD: S 29°29'43" E	149.53'	149.53'	PC3 TO PT3
L11	S 28°00'00" E	4513.67'		PT3 TO BHL

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	BRIAN J. DYTKO (S/R)	6-118-1-1	41.06
2	CHARLES D. FISCHER JR. (S)	6-118-4	32.60
3	CHARLES D. FISCHER JR. & KAREN FISCHER (R)		
4	ROGER A. WIFE & TERA J. WIFE (S/R)	8-118-2	67.81
5	FRANK A. TAYLOR (S/R)	12-2-21	2.90
6	ARNETTE L. LAMARCAZ (S/R)	12-2-19	1.28
7	ROBERT L. SIEGLER ET AL (S)	12-2-17	3.00
8	ROBERT T. SIEGLER & LISA W. SIEGLER (R)		
9	TERESA L. WEAVER (S/R)	12-2-22	3.92
10	TERESA L. WEAVER (S/R)	12-2-23	21.03
11	SCOTT L. VELLEKNOWH ET AL (S)	12-2-11	25.38
12	SCOTT L. VELLEKNOWH & CHRISTINA VELLEKNOWH (R)		
13	JAMES L. LUNAN & CARIKE J. LUNAN (S)	12-2-10	185.20
14	ROBERT E. DUBIST (R)		
15	WALE L. MOORE (R)		
16	ELM GROVE UNITED METHODIST CHURCH (R)		
17	GREGORY WILLIAMS (R)		
18	DOLores E. WILLIAMS (R)		
19	BETTY DELE BANO (S/R)	12-2-2	124.10
20	RONALD TUBAUGH & TARA TUBAUGH (S)	12-2-5	215.25
21	NORMA TUBAUGH, GARNITA TUBAUGH, CLARENCE W. TUBAUGH, & SARY W. GLESSNER (R)		

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

SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.029941°	
LONGITUDE: -80.608023°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,537,877.843	
EASTING: 1,750,142.387	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,431,153.968	
EASTING: 533,444.466	
LANDING POINT LOCATION (LPL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.029691°	
LONGITUDE: -80.610044°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,537,784.080	
EASTING: 1,749,577.080	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,431,125.450	
EASTING: 533,272.161	
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.006185°	
LONGITUDE: -80.600063°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,529,237.140	
EASTING: 1,752,409.560	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,428,520.337	
EASTING: 534,135.502	

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. 2315 *Samuel Earl Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF SURVEY: GRADE GPS (NAVD 88, US FT)
ELEVATION:

COMPANY: **SWN** Production Company, LLC
BRIAN DYTKO OHI 206H

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

WATERSHED: WHEELING CREEK
DISTRICT: TRIADDELPHIA COUNTY: OHIO
SURFACE OWNER: BRIAN DYTKO
OIL & GAS ROYALTY OWNER: BRIAN DYTKO

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

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

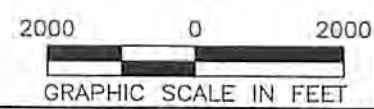
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,335' TVD 16,663' TMD

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

DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		05-12-2015
⊗ EXISTING / PRODUCING WELLHEAD		
⊘ ABANDONED WELL	--- LEASE BOUNDARY	
⊙ PLUGGED & ABANDONED WELL	--- 300' DHP BUFFER	
⊚ CUT CONDUCTOR	--- MAR 1 --- MARCELLUS DHP	
	--- --- ABANDONED PATH	

S:\WEST VIRGINIA\GAS WELLS\OHI - OHIO COUNTY, WV\BRIAN DYTKO OHI\BRIAN DYTKO OHI 206H\BRIAN DYTKO OHI 206H.DWG
THURSDAY AUGUST 06 2015 08:47AM
PROPERTY NUMBER 2501163605
FAD ID 3001155643



COMPANY: **SWN** Production Company, LLC
BRIAN DYTKO OHI 206H

OPERATOR'S WELL #: 206H
API WELL #: 47 69
STATE COUNTY PERMIT

Received
Office of Oil & Gas
AUG 17 2015
10/16/2015

ROAD XING



June 22, 2015

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

RE: SWN's proposed Brian Dytko OHI 206H in Ohio County, West Virginia, Drilling under Stone Church Road and 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 Stone Church Road and 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
Senior Landman
SWN Production Company, LLC
PO Box 1300
Jane Lew, WV 26378

4706900197



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

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10/16/2015
AUG 17 2015

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

Date of Notice Certification: 8/13/15

API No. 47- 69
Operator's Well No. Brian Dytko OHI 206H
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>WV</u>	UTM NAD 83 Easting: <u>533444.466</u>
County: <u>69-Chio</u>	Northing: <u>4431153.968</u>
District: <u>Tridelphia</u>	Public Road Access: _____
Quadrangle: <u>Valley Grove</u>	Generally used farm name: <u>Brian Dytko</u>
Watershed: <u>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.

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: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <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 <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
--	--	--

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.

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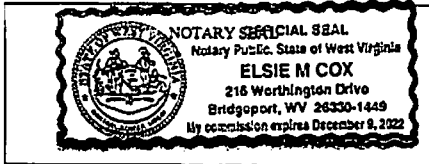
Received
Office of Oil & Gas
AUG 17 2015

10/16/2015

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>Dea Southal</u>		<u>Jane Lew, WV 26378</u>
Its:	<u>Regulatory Supervisor</u>	Facsimile:	<u>304-471-2479</u>
Telephone:	<u>304-894-1614</u>	Email:	<u>Dea_Southal@swn.com</u>



Subscribed and sworn before me this 11th day of August 2015
Elsie M. Cox Notary Public
 My Commission Expires 12-9-2022

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.

RECEIVED
Office of Oil and Gas
SEP 15 2015
WV Department of
Environmental Protection

RECEIVED
Office of Oil and Gas
SEP 15 2015
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: 8/14/15 Date Permit Application Filed: 8/14/15

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

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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: _____

COAL OWNER OR LESSEE
 Name: Murray American Energy, Inc.
 Address: 6126 Energy Road
Moundsville, WV 26041

COAL OPERATOR
 Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
 Name: _____
 Address: _____
 Name: _____
 Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 Name: *** See Attachment #1
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
 Name: _____
 Address: _____

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

*Please attach additional forms if necessary

Received
Office of Oil & Gas
AUG 17 2015
10/16/2015

Brian Dytko OHI Pad- Water Purveyors			
<i>Landowner</i>	<i>Address</i>		
Charlie Fischer	1235 Stone Church Road	Wheeling	WV 26003
Robert Bogard	2428 Middle Creek Road	Wheeling	WV 26003
Betty Baird	1513 Stone Church Road	Wheeling	WV 26003
Wilbur White	1213 Stone Church Road	Wheeling	WV 26003



4706900197

Received
Office of Oil & Gas
10/16/2015
AUG 17 2015

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

Received
Office of Oil & Gas
10/16/2015
AUG 17 2015

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. (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

Received
Office of Oil and Gas
AUG 17 2015

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.

Received
Office of Oil & Gas
AUG 17 2015

10/16/2015

WW-6A
(8-13)

API NO. 47- 69 -
OPERATOR WELL NO. Brian Dytko OHI 206H
Well Pad Name: Brian Dytko OHI Pad

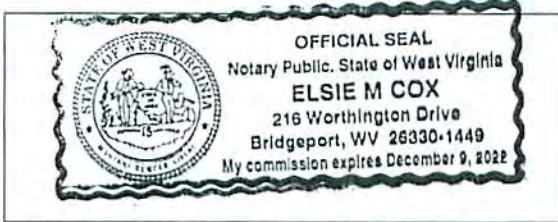
Notice is hereby given by:

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: 304-471-2479

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 11th day of August 2015
Elsie M. Cox Notary Public
My Commission Expires 12-9-2022

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Received
Office of Oil & Gas
AUG 17 2015

10/16/2015



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 AUG 17 2015

10/16/2015

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: 06/25/2015 **Date Permit Application Filed:** 8/14/15

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: 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:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>533,444.466</u>
County:	<u>Ohio</u>		Northing:	<u>4,431,153.968</u>
District:	<u>Triadelphia</u>	Public Road Access:	<u>Stone Church Road</u>	
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:	_____	
Watershed:	<u>Wheeling Creek</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: PO Box 1300
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: micah_feather@swn.com
Facsimile: _____

Authorized Representative: Danielle Southall
Address: PO Box 1300
Jane Lew, WV 26378
Telephone: 304-884-1614
Email: danielle_southall@swn.com
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 its regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business 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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AUG 17 2015
WV Department of
Environmental Protection
10/16/2015

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: 09/25/2015 **Date Permit Application Filed:** 8/14/15

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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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 ✓ Name: _____
Address: 1278 Stone Church Rd Address: _____
Wheeling, WV 26003 _____

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>533,444,466</u>
County:	<u>Ohio</u>	Northing:	<u>4,431,153,968</u>
District:	<u>Triadelphia</u>	Public Road Access:	<u>Stone Church Road</u>
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:	_____
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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator:	<u>SWN Production Company, LLC</u>	Address:	<u>PO Box 1300, 179 Innovation Drive</u>
Telephone:	<u>304-884-1614</u>		<u>Jane Lew, WV 26378</u>
Email:	<u>Dee_Southall@SWN.com</u>	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.

Received
Office of Oil & Gas
AUG 17 2015
10/16/2015



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

June 30, 2015

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 Brian Dytko Pad, Ohio County
Brian Dytko OHI 206H

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,

4706900197
Gary K. Clayton

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

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Received
Office of Oil & Gas
AUG 17 2015

10/16/2015

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
BAKER HUGHES	ALPHA 1427	Biocide	Didecyl Dimethyl Ammonium Chloride	007173-51-1
			Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
	ClayCare	Clay Stabilizer	Choline Chloride	000067-48-1
			Water	007732-18-5
	Enzyme G-I	Breaker	No Hazardous Components	NONE
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
	GW-3LDF	Gel	Petroleum Distillate Blend	N/A-014
			Polysaccharide Blend	N/A-021
	SCALETROL 720	Scale Inhibitor	Diethylene Glycol	000111-46-6
Ethylene Glycol			000107-21-1	
XLW-32	Crosslinker	Boric Acid	010043-35-3	
		Methanol (Methyl Alcohol)	000067-56-1	
FRAC TECH SERVICES	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
	BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
	FRW-200	Friction Reducer	No Hazardous Components	NONE
	HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
	LTB-1	Breaker	Ammonium Persulfate	N/A

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Received
Office of Oil & Gas

AUG 17 2015

10/16/2015

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
NALCO ONESOURCE	EC6110A	Biocide	Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
WEATHERFORD	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Ammonium Persulfate	007727-54-0
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
			Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
	WPB-584-L	Buffer	Potassium Carbonate	000584-08-7
			Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
	WXL-105L	Crosslinker	Water	007732-18-5
			Ethylene Glycol	000107-21-1
Boric Acid			010043-35-3	
Ethanolamine			000141-43-5	
SCHLUMBERGER	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
	EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2
Supplier Name	Product Name	Product Use	Chemical Name	CAS Number

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AUG 27 2015

WV Department of
Environmental Protection

10/16/2015

SCHLUMBERGER	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
	Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303-96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310-58-3

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Environmental Protection

10/16/2015



● SITE LOCATION

WEST VIRGINIA COUNTY MAP

TRIADELPHIA DISTRICT, OHIO COUNTY
WEST VIRGINIA
SCALE: N.T.S.

PROJECT CONTACTS

SOUTHWESTERN ENERGY

Tom Chambers - Facilities Engineer
501-548-3753

John Angulli, Field Regulatory Specialist
304-884-1644

Jimmy Johnson, Construction Superintendent
304-997-9403

ENGINEER & SURVEYOR

Anthony Baumgard, PE
Triple H Enterprises
304-873-3260

Darrell Boice, PS
Triple H Enterprises
304-873-3260



ANTHONY BAUMGARD, P.E. NO. WV 14049

WEST Utility of West Virginia
1-800-243-4448
West Virginia State Law
(Section XXV, Chapter 24-7)
Requires that you call two business days before you dig in
the state of West Virginia
IT'S THE LAW!!!

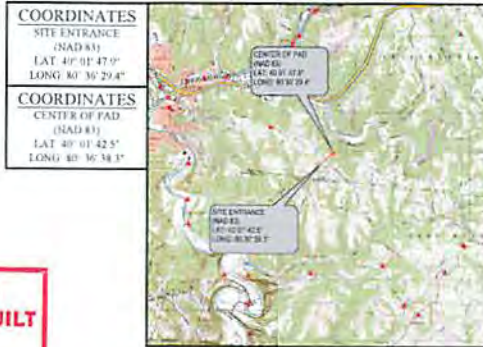


**BRIAN DYTKO OHI AS-BUILT
AS-BUILT/PRODUCTION PLAN
TRIADELPHIA DISTRICT, OHIO COUNTY, WV
AUGUST 2015**

UNIVERSAL TRANSVERSE MERCATOR COORDINATE SYSTEM
ZONE 17, NAD83
ELEVATIONS BASED ON NAVD83
ESTABLISHED BY SURVEY GRADE GPS & GPS
POST-PROCESSING



USGS VALLEY GROVE, WV QUAD MAP



DRAWING INDEX

- 01 - COVER SHEET
- 02 - PLAN SHEET
- 03 - ACCESS ROAD PROFILE SHEET
- 04 - DETAIL SHEET

WELL INFORMATION			
WELL NO.	API NUMBER	WELL NO.	API NUMBER
1H	069-00115		
2H	068-00190		
5H	069-00158		
6H	069-00126		
8H	068-00071		
10H	068-00127		

**WVDEP OOG
ACCEPTED AS-BUILT**
WJL 10 / 14 / 2015



TRIADELPHIA DISTRICT, OHIO COUNTY,
WEST VIRGINIA

WVDOH COUNTY ROAD MAP
● PROJECT LOCATION
SCALE: N.T.S.

REVISIONS
DATE
BY
DESCRIPTION

DATE
8-11-15
BY
ADG



COVER SHEET
BRIAN DYTKO OHI WELL PAD
BRIAN DYTKO OHI WELL PAD AS-BUILT
TRIADELPHIA DISTRICT, OHIO COUNTY
WEST VIRGINIA

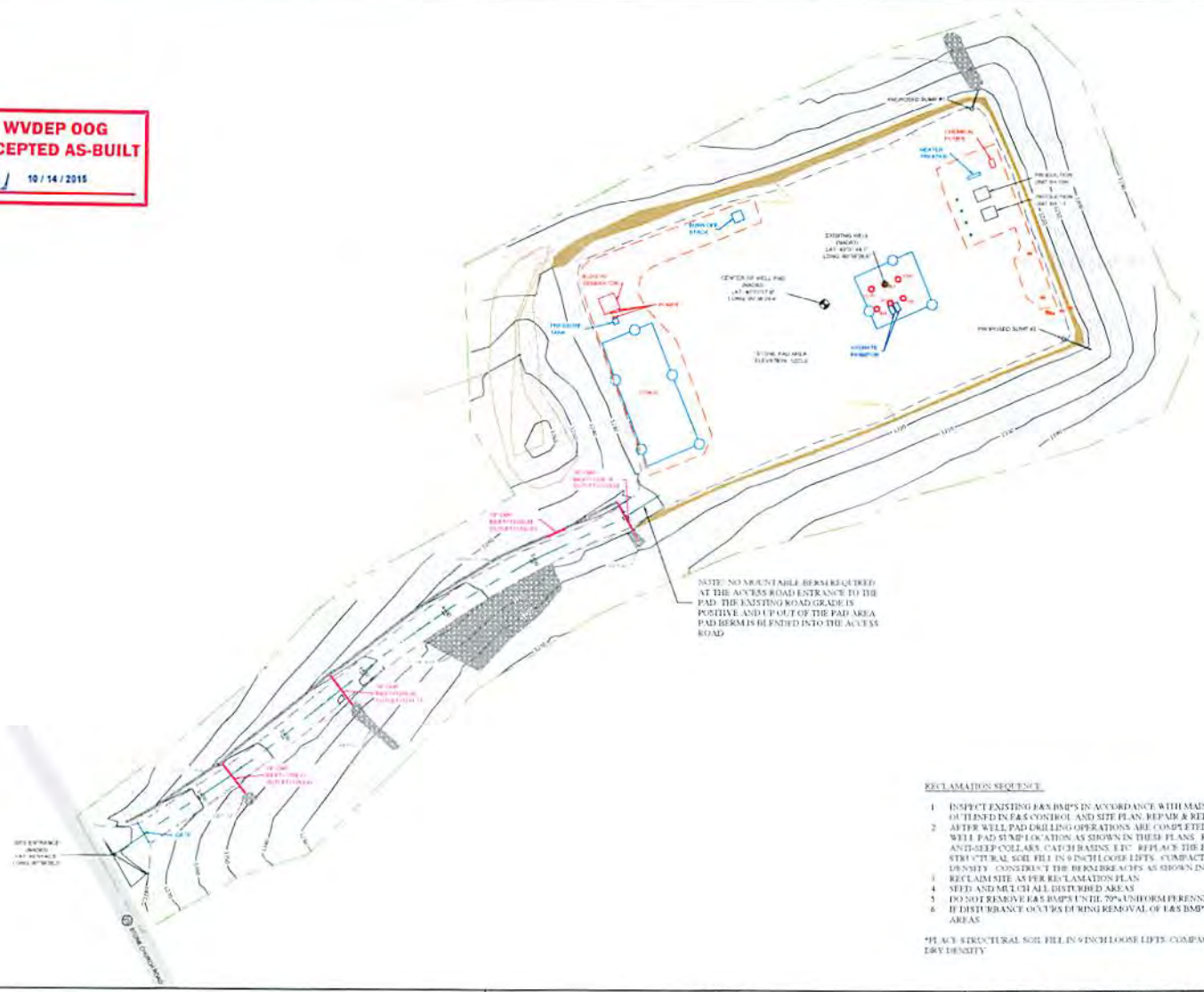
AS-BUILT CERTIFICATION:
THE DRAWINGS, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAM ATTACHED HERETO HAVE
BEEN PREPARED IN ACCORDANCE WITH THE WEST
VIRGINIA CODE OF STATE RULES, DIVISION OF
ENVIRONMENTAL OFFICE OF OIL AND GAS CHAPTER 15-4.

- NOTES**
1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF JULY 1, 2015. TRIPLE H ENTERPRISES IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATE.
 2. THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
 3. THE EXISTING FENCE TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

JOB: SWN-15-0020
DATE: 8-11-15
DRAWN BY: ADG
SCALE: AS SHOWN
SHEET: 1 OF 4

DWG.

**WVDEP OOG
ACCEPTED AS-BUILT**
10/14/2015



RECLAMATION SEQUENCE

1. INSPECT EXISTING EAS BEMPS IN ACCORDANCE WITH MAINTENANCE AND INSPECTION PROCEDURES AS OUTLINED IN EAS CONTROL AND SITE PLAN. REPAIR & REPEAT AS NEEDED.
2. AFTER WELL PAD DRILLING OPERATIONS ARE COMPLETED INSTALL ALL BERM REACHES AT EACH EXISTING WELL PAD SUMP LOCATION AS SHOWN IN THESE PLANS. REMOVE ALL SUMP PIPES, GATE VALVES AND STOP COLLARS. CAP THEM AS SHOWN IN THESE PLANS. REPAIR THE EXCAVATED SOILS WITH 90% FILL. PLACE THE STRUCTURAL SOIL FILL IN 9 INCH LOOSE LIFTS. COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY. CONSULT THE RECLAIMER AS SHOWN IN THE "RECLAIMER MATERIAL" IN THESE PLANS.
3. RECLAIM SITE AS PER RECLAMATION PLAN.
4. SEED AND MULCH ALL DISTURBED AREAS.
5. DO NOT REMOVE EAS BEMPS UNTIL 75% UNIFORM PERENNIAL GROWTH IS ACHIEVED.
6. IF DISTURBANCE OCCURS DURING REMOVAL OF EAS BEMPS IMMEDIATELY SEED AND MULCH DISTURBED AREAS.

*PLACE STRUCTURAL SOIL FILL IN 9 INCH LOOSE LIFTS. COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.

- NOTES**
1. THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
 2. THE EXISTING EGRESS TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

LEGEND

- AS-BUILT 2' CONTOURS	- LIMITS OF DISTURBANCE
- AS-BUILT 10' CONTOURS	- EXISTING GAS LINE MARKER
- CHAIN LINK FENCE	- SAND TRAP
- PRODUCTION AREA	- PROPOSED WELL
- EXISTING GRAVEL	- EXISTING WELL
- EXISTING ACCESS ROAD CENTER LINE	- EXISTING PAD BERM
- EXISTING DITCH	

WELL INFORMATION

WELL NO.	API NUMBER	WELL NO.	API NUMBER
1H	069-00115		
3H	069-00198		
5H	069-00198		
6H	069-00126		
8H	069-00071		
10H	069-00127		



DATE: _____
 REVISIONS: _____
 SWN Engineering, Inc.
 Production Company
 1000 GLENVIEW AVENUE, SUITE 100
 WEST VIRGINIA, WV 26040

OVERALL PLAN SHEET
 BRIAN DYTKO OHIO WELL PAD
 BRIAN DYTKO OHIO WELL PAD AS-BUILT
 TRACELPHIA DISTRICT, OHIO COUNTY
 WEST VIRGINIA

JOB: SW4-15-0020
 DATE: 06-11-2015
 DRAWN BY: AGG
 SCALE: AS SHOWN
 SHEET: 2 OF 4

016



● SITE LOCATION

WEST VIRGINIA COUNTY MAP

TRIADELPHIA DISTRICT, OHIO COUNTY,
WEST VIRGINIA
SCALE: N.T.S.

PROJECT CONTACTS

SOUTHWESTERN ENERGY

Tom Chambers - Facilities Engineer
501-548-3753

John Angiulli, Field Regulatory Specialist
304-884-1644

Jimmy Johnson, Construction Superintendent
304-997-9403

ENGINEER & SURVEYOR

Anthony Baumgard, PE
Triple H Enterprises
304-873-3260

Darrell Boice, PS
Triple H Enterprises
304-873-3260



ANTHONY BAUMGARD, P.E. NO. WV 14049

MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XXV, Chapter 24-C)
Requires that you call two business days before you dig in
the state of West Virginia
IT'S THE LAW!!!



BRIAN DYTKO O
AS-BUILT/PRODU
TRIADELPHIA DISTRICT,
AUGUST 2

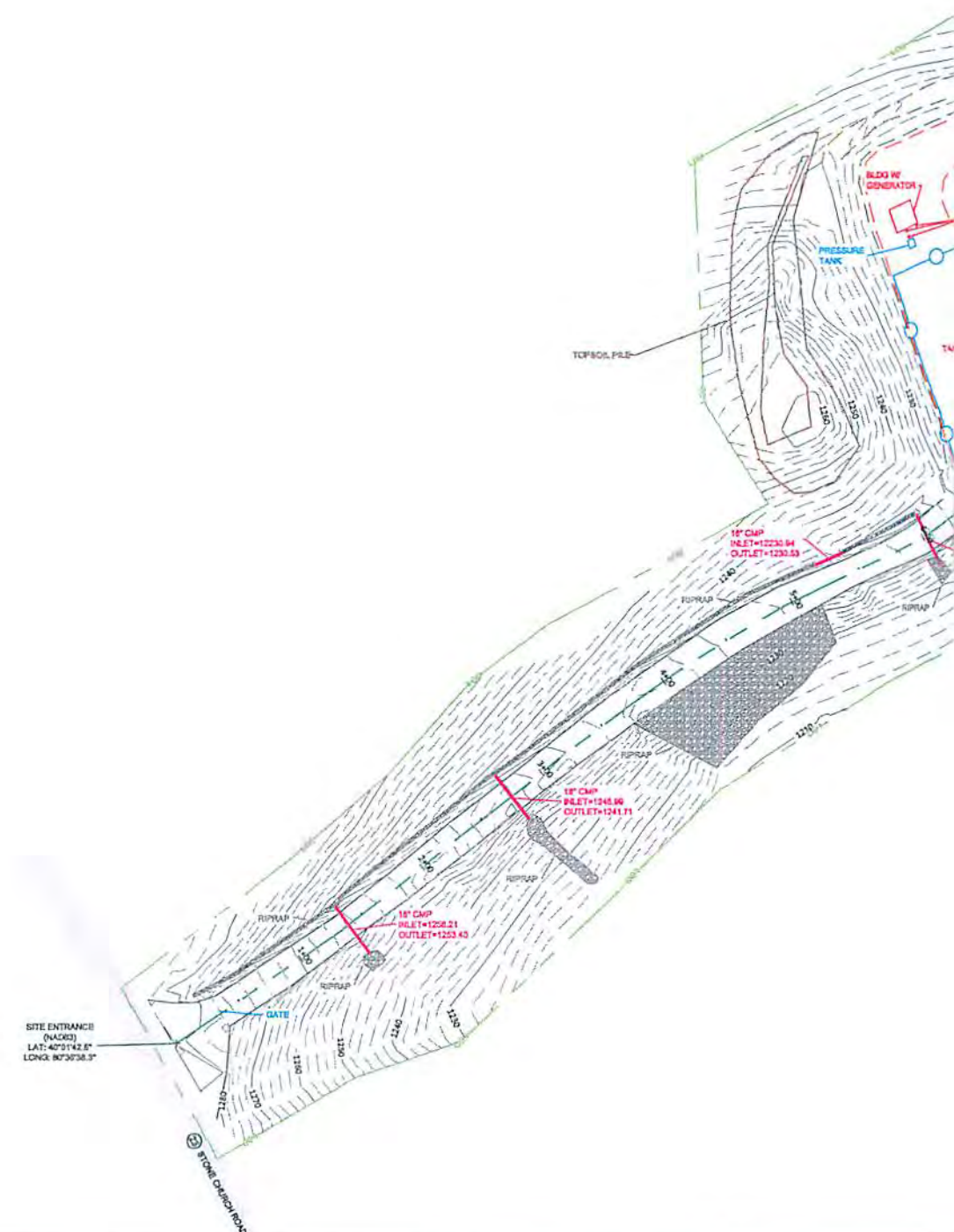
USGS VALLEY GROVE, W

COORDINATES
SITE ENTRANCE (NAD 83) LAT: 40° 01' 47.9" LONG: 80° 36' 29.4"
COORDINATES
CENTER OF PAD (NAD 83) LAT: 40° 01' 42.5" LONG: 80° 36' 38.3"



NEW MILTON DISTRICT, DOD
WEST VIRGIN

WVDOH COUNTY RC
● PROJECT LOCA
SCALE: N.T.S.



NOTES:

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2. THE EXISTING EGRESS TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS

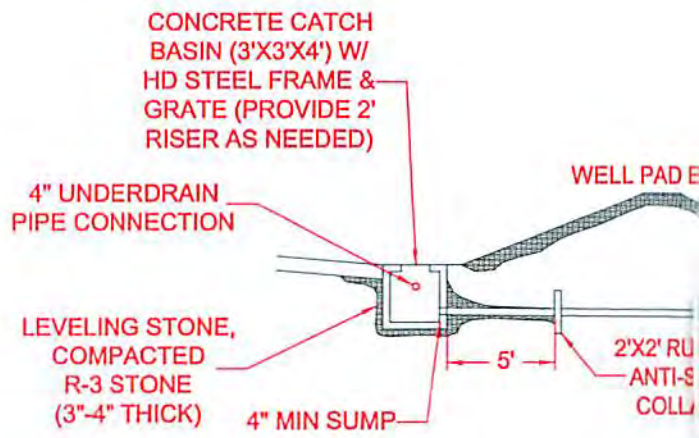
- - - - - = AS-BUILT 2' CON
- — — — — = AS-BUILT 10' CO
- — — — — = CHAINLINK FEN
- — — — — = PRODUCTION AP
- - - - - = EXISTING GRAV
- — — — — = EXISTING ACCES
- — — — — = EXISTING DITCH



NOTES:

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- - - - - = AS-BUILT 2' CON
- = AS-BUILT 10' CON
- = CHAINLINK FENC
- - - - - = PRODUCTION AR
- - - - - = EXISTING GRAVE
- = EXISTING ACCES
- - — - — = EXISTING DITCH



WELL PAD TYPICAL CROSS SECTION

NOTES:

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- AS-BUILT 10" CO
- CHAINLINK FENC
- - - - - PRODUCTION AB
- - - - - EXISTING GRAV
- EXISTING ACCES
- - - - - EXISTING DITCH

