

WR-35
Rev. 8/23/13

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-069-00265 County OHIO District TRIADELPHIA
Quad VALLEY GROVE, WV Pad Name BRIAN DYTCKO OHI PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name BRIAN J. DYTCKO Well Number BRIAN DYTCKO OHI 5H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,431,166.35 Easting 533,458.49
Landing Point of Curve Northing 4,431,366.08 Easting 533,485.98
Bottom Hole Northing 4,433,507.22 Easting 531,999.39

Elevation (ft) 1222.6' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
SOBM

Date permit issued 3/21/2018 Date drilling commenced 4/17/2018 Date drilling ceased 6/8/2018
Date completion activities began 1/4/2019 Date completion activities ceased 2/10/2019
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Freshwater depth(s) ft 555' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 999' Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 649' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by:
Reviewed
 5-2819

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API 47-069 - 00265 Farm name BRIAN J. DYTKO Well number BRIAN DYTKO OHI 5H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24	20	126	NEW	J-55/94#		Y
Surface	17.5	13.375	679	NEW	J-55/54.5#		Y; 38 BBLS
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2,005	NEW	J-55/36#		Y; 31 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	15,405	NEW	HCP-110/20#		Y
Tubing		2.375	6,722	NEW	P-110/4.7#		N
Packer type and depth set							

Comment Details

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	704	15.6	1.20	844.8	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	733	15.6	1.18	864.94	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,855	15.60	1.18	3,368.9	SURFACE	24
Tubing							

Drillers TD (ft) 15,456' Loggers TD (ft) 15,456'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,805'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 181 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS RECEIVED Office of Oil and Gas

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS MAY 10 2019

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED WV Department of Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/4/2019
Job End Date:	2/2/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-00265-01-00
Operator Name:	Southwestern Energy
Well Name and Number:	Brian Dytko OHI 5
Latitude:	40.03005201
Longitude:	-80.60785799
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,327
Total Base Water Volume (gal):	10,173,690
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
FLOJET DR 9000LPP	SWN Well Services	Friction Reducer					
Econo-CI200	SWN Well Services	Corrosion Inhibitor		Listed Below			
				Listed Below			

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				Methanol	67-56-1	60.00000	0.01494
				Ethylene glycol	107-21-1	10.00000	0.01135
				Benzyl-(C12-C16 Alky)- Dimethyl-Ammonium	68424-85-1	30.00000	0.00747
				Chloride Glutaraldehyde	111-30-8	10.00000	0.00249
				Alcohols, C12- C16, Ethoxylated propoxylated	68213-24-1	2.00000	0.00193
				Fatty alcohols ethoxylated	Proprietary	2.00000	0.00193
				Amine Triphosphate	Proprietary	30.00000	0.00168
				Acetic Acid	64-19-7	37.50000	0.00160
				Methanol	67-56-1	80.00000	0.00098
				Citric Acid	77-92-9	22.50000	0.00096
				Oxyalkylated fatty acid	68951-67-7	9.67400	0.00012
				Fatty acids	61790-12-3	5.02700	0.00006
				Modified thiourea polymer	68527-49-1	4.74600	0.00006
				Potassium acetate	127-08-2	0.02200	0.00000
				Formaldehyde	50-00-0	0.00400	0.00000

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	12/19/2018	15,348	15,273	
2	1/4/2019	15,199	15,092	42
3	1/5/2019	15,059	14,952	42
4	1/5/2019	14,919	14,812	42
5	1/6/2019	14,779	14,684	42
6	1/6/2019	14,639	14,532	42
7	1/7/2019	14,499	14,392	42
8	1/7/2019	14,359	14,252	42
9	1/8/2019	14,214	14,112	42
10	1/8/2019	14,079	13,972	42
11	1/9/2019	13,939	13,832	42
12	1/9/2019	13,796	13,692	42
13	1/10/2019	13,654	13,552	42
14	1/11/2019	13,519	13,412	42
15	1/11/2019	13,379	13,272	42
16	1/12/2019	13,239	13,132	42
17	1/15/2019	13,096	12,992	42
18	1/15/2019	12,959	12,849	42
19	1/16/2019	12,819	12,712	42
20	1/16/2019	12,679	12,574	42
21	1/16/2019	12,539	12,432	42
22	1/17/2019	12,399	12,292	42
23	1/17/2019	12,254	12,160	42
24	1/17/2019	12,119	12,012	42
25	1/18/2019	11,979	11,872	42
26	1/18/2019	11,839	11,732	42
27	1/18/2019	11,694	11,592	42
28	1/19/2019	11,559	11,452	42
29	1/19/2019	11,419	11,312	42
30	1/19/2019	11,274	11,172	42
31	1/19/2019	11,139	11,032	42
32	1/20/2019	10,999	10,892	42
33	1/22/2019	10,698	10,612	42
34	1/24/2019	10,579	10,472	42
35	1/25/2019	10,439	10,332	42
36	1/25/2019	10,299	10,192	42
37	1/26/2019	10,159	10,052	42
38	1/26/2019	10,016	9,912	42
39	1/26/2019	9,879	9,774	42
40	1/26/2019	9,739	9,632	42
41	1/27/2019	9,599	9,492	42
42	1/27/2019	9,455	9,357	42
43	1/27/2019	9,319	9,212	42
44	1/27/2019	9,179	9,072	42
45	1/28/2019	9,039	8,936	42
46	1/28/2019	8,899	8,792	42
47	1/28/2019	8,759	8,652	42
48	1/29/2019	8,637	8,509	42
49	1/29/2019	8,479	8,372	42
50	1/29/2019	8,339	8,232	42
51	1/29/2019	8,199	8,092	42
52	1/29/2019	8,059	7,952	42
53	1/30/2019	7,914	7,817	42
54	1/30/2019	7,779	7,672	42
55	1/31/2019	7,639	7,532	42
56	2/1/2019	7,495	7,391	42
57	2/1/2019	7,352	7,252	42
58	2/1/2019	7,219	7,112	42
59	2/1/2019	7,079	6,972	42
60	2/1/2019	6,935	6,832	42
61	2/2/2019	6,799	6,697	42

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 ATTACHMENT 2
 STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
1	1/4/2019	90	7,998	7,968	3,607	217,120	3,858	0
2	1/5/2019	97	7,793	5,673	4,452	211,200	4,343	0
3	1/5/2019	98	7,854	5,121	4,951	213,120	4,034	0
4	1/6/2019	94	8,131	3,930	5,022	213,840	4,061	0
5	1/6/2019	91	7,714	6,093	4,251	208,580	5,229	0
6	1/6/2019	90	8,152	5,647	4,953	210,225	3,922	0
7	1/7/2019	80	8,060	6,049	4,747	213,700	4,170	0
8	1/7/2019	75	7,546	6,180	4,820	217,620	5,876	0
9	1/8/2019	86	7,923	5,806	4,841	219,840	4,254	0
10	1/9/2019	82	7,789	5,447	4,932	215,220	4,322	0
11	1/9/2019	88	7,784	6,094	5,060	224,480	4,437	0
12	1/10/2019	97	8,206	5,813	5,380	204,775	4,339	0
13	1/10/2019	91	7,860	5,757	5,380	220,200	3,854	0
14	1/11/2019	92	7,707	5,804	4,650	210,000	4,081	0
15	1/11/2019	90	7,745	5,975	4,650	194,608	3,917	0
16	1/14/2019	90	7,800	5,621	4,776	216,160	3,541	0
17	1/15/2019	95	7,619	5,640	5,372	208,600	4,014	0
18	1/15/2019	87	7,703	6,302	4,804	216,540	3,713	0
19	1/16/2019	90	7,760	5,831	4,722	216,960	3,746	0
20	1/16/2019	88	7,775	6,504	5,225	215,540	4,017	0
21	1/16/2019	96	7,839	6,672	5,036	221,120	3,898	0
22	1/17/2019	84	7,836	5,604	4,779	219,200	4,259	0
23	1/17/2019	85	7,709	5,323	5,432	215,682	4,167	0
24	1/17/2019	84	7,845	6,442	5,018	214,400	3,849	0
25	1/18/2019	64	7,849	5,925	4,830	212,060	5,534	0
26	1/18/2019	79	7,446	5,480	4,808	201,990	4,089	0
27	1/18/2019	86	7,707	5,417	4,808	215,620	4,244	0
28	1/18/2019	74	7,868	6,469	4,658	217,940	3,876	0
29	1/19/2019	82	7,420	6,030	4,979	212,620	4,075	0
30	1/19/2019	80	0	5,791	4,635	220,800	3,759	0
31	1/20/2019	63	7,150	6,125	4,509	214,820	5,875	0
32	1/22/2019	79	7,870	6,052	4,892	217,640	4,029	0
33	1/24/2019	86	8,294	6,959	3,715	206,010	3,815	0
34	1/25/2019	86	8,332	6,586	4,541	217,300	3,546	0
35	1/25/2019	95	7,962	5,868	4,935	206,010	4,038	0
36	1/25/2019	88	7,827	6,427	4,313	216,120	3,619	0
37	1/26/2019	90	7,933	6,004	4,685	219,280	3,800	0
38	1/26/2019	85	7,563	6,011	4,884	216,120	4,104	0
39	1/26/2019	88	7,656	6,621	4,736	206,470	3,544	0
40	1/26/2019	93	7,692	6,378	4,503	205,552	3,364	0
41	1/27/2019	88	7,420	5,803	4,032	213,320	4,077	0
42	1/27/2019	94	7,956	6,086	4,726	213,780	3,847	0
43	1/27/2019	92	7,687	6,706	4,410	216,420	3,383	0
44	1/27/2019	92	7,762	6,328	4,690	210,680	3,407	0
45	1/28/2019	85	7,431	5,629	5,087	212,400	3,963	0
46	1/28/2019	86	7,398	6,057	4,879	220,720	3,991	0
47	1/28/2019	85	8,100	6,734	4,454	218,940	4,550	0
48	1/29/2019	85	7,866	5,417	4,621	229,220	3,360	0
49	1/29/2019	91	7,989	6,649	5,255	218,030	3,499	0
50	1/29/2019	94	7,857	5,823	5,026	217,540	3,676	0
51	1/29/2019	90	7,583	6,042	4,968	219,680	3,279	0
52	1/29/2019	79	7,542	5,218	4,216	214,820	3,257	0
53	1/30/2019	87	8,172	5,210	4,253	160,470	4,044	0
54	1/30/2019	90	7,906	4,852	5,239	181,120	3,644	0
55	1/31/2019	84	7,147	5,531	5,411	215,460	4,030	0
56	2/1/2019	94	7,451	6,798	5,067	217,940	3,577	0
57	2/1/2019	94	6,872	5,114	5,355	207,210	3,804	0
58	2/1/2019	95	7,124	6,203	4,852	218,680	3,882	0
59	2/1/2019	97	6,994	6,203	4,554	217,300	3,613	0
60	2/2/2019	94	7,436	5,523	5,243	216,260	3,794	0
61	2/2/2019	95	6,988	5,371	4,952	235,060	3,824	0

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Southwestern Energy®

Well Name: Brian Dytko OHI 5H

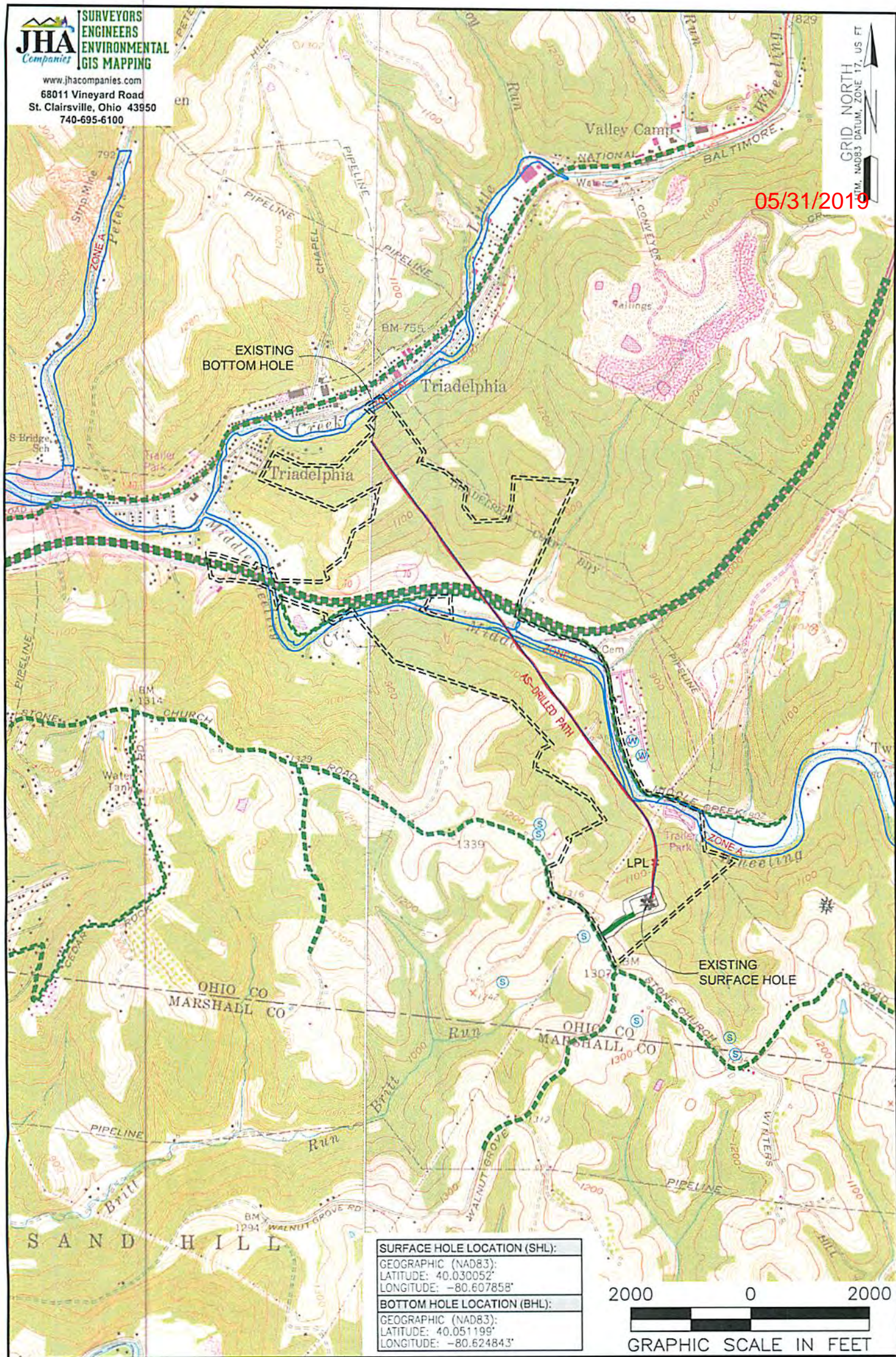
Attachment 3

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0.00	0.00	555.00	555.00	
Top of Salt Water	999.00	999.00	NA	NA	
Pittsburgh Coal	639.00	639.00	649.00	649.00	
Maxton (ss)	1519.00	1519.00	1778.00	1778.00	
Big Injun (ss)	1778.00	1778.00	2259.00	2259.00	
Berea (siltstone)	2259.00	2259.00	6115.00	5725.00	
Rhinstreet (shale)	6742.00	6739.00	6040.00	6026.00	
Cashaqua (shale)	6040.00	6026.00	6124.00	6099.00	
Middlesex (shale)	6124.00	6099.00	6222.00	6177.00	
Burket (shale)	6222.00	6177.00	6251.00	6199.00	
Tully (ls)	6251.00	6199.00	6299.00	6231.00	
Mahantango (shale)	6299.00	6231.00	6493.00	6322.00	
Marcellus (shale)	6493.00	6322.00	NA	NA	GAS

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SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.030052°
LONGITUDE: -80.607858°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.051199°
LONGITUDE: -80.624843°



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
- LPL ✗ LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH
- ASDRILLED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: BRIAN DYTKO OHI	WELL # 5H ST1	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT: TRIADDELPHIA	API NO: 47-069-00265
SURFACE OWNER: BRIAN J. DYTKO	USGS 7 1/2 QUADRANGLE MAP NAME: VALLEY GROVE, WV		

LATITUDE: '40°02'30" SURFACE HOLE ← 6920'

LATITUDE: 40°05'00" BOTTOM HOLE ← 11673'

4242'

11730'

LONGITUDE: -80°35'00" SURFACE HOLE

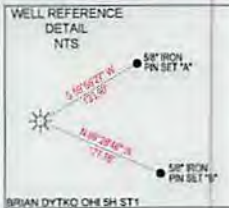
LONGITUDE: -80°35'00" BOTTOM HOLE



www.jhacompanies.com

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

LINE	BEARING	DISTANCE
L1	S56°31'35"W	2157.19'
L2	S59°51'44"W	1821.10'



NOTES ON SURVEY

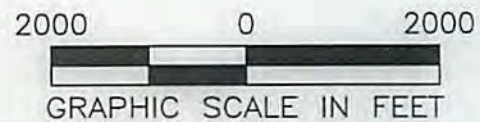
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES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

05/31/2019



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431166.35 EASTING: 533458.49	SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431166.35 EASTING: 533458.49
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431349.31 EASTING: 533491.60	LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431366.08 EASTING: 533485.98
TURNING POINT (TPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431614.29 EASTING: 533425.46	BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4433507.22 EASTING: 531999.39
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4433506.34 EASTING: 531998.05	

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431166.35 EASTING: 533458.49	LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431366.08 EASTING: 533485.98
TURNING POINT (TPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4431614.29 EASTING: 533425.46	BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4433507.22 EASTING: 531999.39



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. 2041

COMPANY: **SWN** Production Company, LLC

(+) 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 ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #: BRIAN DYTOKO OHI 5H ST1

API WELL #: 47 STATE 069 COUNTY 00265 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1222.6'

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

SURFACE OWNER: BRIAN J. DYTOKO ACREAGE: ±41.00

OIL & GAS ROYALTY OWNER: BRIAN J. DYTOKO 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) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,377' TVD 15,405' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- LPL* LANDING POINT LOCATION
- ⊙ EXISTING WATER WELL
- ⊙ EXISTING SPRING
- SURVEYED BOUNDARY
- ===== LEASE BOUNDARY
- AS DRILLED PATH
- PROPOSED PATH

REVISIONS:

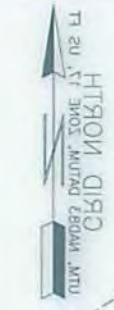
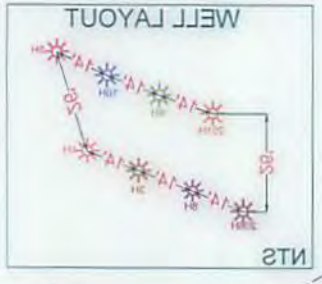
DATE:	03-14-2019
API NO:	47-069-00265
DRAWN BY:	D. REED
SCALE:	1" = 2000'
DRAWING NO:	2017-300
WELL LOCATION PLAT	

LINE	BEARING	DISTANCE
L1		
L2	S25°17'44"W	1831.70'

05/31/2019



NOTES ON SURVEY
 1. COORDINATE SYSTEM IS UTM AND 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 2. 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.
 3. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 4. NO PERMANENT STREAMS, LAKES, PONDS, RESERVOIRS OR WEIRINGS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 5. NO NATURALLY OCCURRING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
 6. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



POINT	EASTING	NORTHING	UTM (NAD83, ZONE 17, METERS)
SURFACE HOLE LOCATION (SHL)	523458.49	443188.35	UTM (NAD83, ZONE 17, METERS): 523458.49, 443188.35
LANDING POINT (L.P.)	523458.98	443188.08	UTM (NAD83, ZONE 17, METERS): 523458.98, 443188.08
BOTTOM HOLE LOCATION (BHL)	521988.34	443508.24	UTM (NAD83, ZONE 17, METERS): 521988.34, 443508.24
TURNING POINT (T.P.)	523452.48	443181.29	UTM (NAD83, ZONE 17, METERS): 523452.48, 443181.29
SURFACE HOLE LOCATION (SHL)	523458.49	443188.35	UTM (NAD83, ZONE 17, METERS): 523458.49, 443188.35



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 POLICE.



SWN Production Company, LLC
 COMPANY: SWN
 OPERATOR'S WELL #: 5H 2T1
 API WELL #: 47
 COUNTY PERMIT: 00265
 WELLS: 47
 COUNTY PERMIT: 00265
 OPERATOR'S WELL #: 5H 2T1
 BRIAN DYKO OHI

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
 DESIGNATED AGENT: BRITTANY WOODY
 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

WATERSHED: UPPER OHIO SOUTH
 DISTRICT: TRIADAPLHIA
 SURFACE OWNER: BRIAN J. DYKO
 OIL & GAS ROYALTY OWNER: BRIAN J. DYKO

WV DEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25034

UNITED STATES TOPOGRAPHIC MAPS (+) DENOTES LOCATION OF WELL ON MAPS

MINIMUM DEGREE OF ACCURACY: 1/500
 PROVEN SOURCE OF GRADE GPS SURVEY
 ELEVATION: (NAD 88, US FT)

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

WATERSHED: UPPER OHIO SOUTH
 DISTRICT: TRIADAPLHIA
 SURFACE OWNER: BRIAN J. DYKO
 OIL & GAS ROYALTY OWNER: BRIAN J. DYKO

ACRAGE: ±41.00
 ACRAGE: ±41.00

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

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) A2-DRILLED
 ESTIMATED DEPTH: 6'377', LVD 15'402', TMD

TARGET FORMATION: MARCELLUS

LEGEND:
 ○ PROPOSED SURFACE HOLE / BOTTOM HOLE
 * EXISTING / PRODUCING WELLS
 * L.P. LANDING POINT LOCATION
 * EXISTING WATER WELL
 * EXISTING SPRING
 --- SURVEYED BOUNDARY
 --- LEASE BOUNDARY
 --- ADRILED PATH
 --- PROPOSED PATH

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BRIAN J DYTKO (S)/(R)	06-T18-0004.0001
2	WILLIAM G. THOMS	06-T18-0003.0000
3	OK TRAILER COURT INC	06-T13-0005.0002
4	JOHN W. NOLAN JR. AND DARLINE G. NOLAN	06-T13-0002.0002
5	OHIO VALLEY INDUSTRIAL & BUSINESS DEVELOPMENT CORPORATION	06-T13-0026.0000
6	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	I-70
7	OHIO COUNTY COMMISSIONERS	07-TW10-0001.0000
8	THE OHIO COUNTY DEVELOPMENT AUTHORITY	07-TW5-0024.0001
9	OHIO COUNTY COMMISSIONERS	06-T12-0053.0000

05/31/2019

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	THERESA L. BLATT	06-T18-0017.0000
B	GREGORY W. & JILLIAN F. GARDNER	06-T18-0025.0000
C	CHARLES D. FISCHER, JR.	06-T18-0004.0000
D	RL WHITE PROPERTIES, LLC	06-T18-0003.0002
E	RONALD J. & P.A. SNYDER	06-T18-0003.0004
F	ROGER A. & MARY K. CLUTTER	06-T13-0002.0005
G	SETH & HEATHER MCCORD	06-T13-0002.0004
H	JOHN EDWARD MCCORD	06-T13-0002.0003
I	EDWARD MCCORD	06-T13-0002.0006
J	PAUL PAVLACK	06-T18-0001.0000
K	MIDDLE CREEK GARAGE, INC.	06-T13-0003.0000
L	BRADLEY W. CLARK	06-T12-0044.0000
M	PAUL W. BLAKE TRUST AGREEMENT DATED AUGUST 29, 2009	06-T12-0038.0001
N	OHIO VALLEY INDUSTRIAL DEVELOPMENT CORPORATION	06-T13-0026.0001
O	JERRY L. & JOSEPHINE L. MESTROVIC	06-T12-0041.0000
P	EDWARD H. II & MARIA M. STEIN	06-T12-0043.0000
Q	CARL E. CARPENTER	06-T12-0039.0001
R	D.R. KOEHL	06-T12-0034.0000
S	CARL E. CARPENTER	06-T12-0039.0000
T	FLOYD J. POGGI	07-TW6-0004.0000
U	BOARD OF EDUCATION	07-TW6-0003.0000
V	ROBERT A. CARR & JESSICA E. WILHELM-MARTH	07-TW6-0002.0000
W	ERIC LICHWA	07-TW6-0001.0000
X	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	07-T12-0031.0000
Y	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	07-TW2-0057.0001
Z	TRAVIS M. KELLY	07-TW5-0020.0000
AA	VICKI SHEARER, PHILIP SHEARER, DAVID SHEARER & PAUL SHEARER	07-TW5-0021.0000
AB	MARK T. MORRIS & DAVID B. MORRIS (SUBJECT TO THE LIFE ESTATE OF JAMES L. MORRIS & MARY A. MORRIS, HUSBAND AND WIFE)	07-TW5-0023.0000
AC	MOUNTAIN ESTATE REALTY, LLC	07-TW5-0014.0000
AD	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW5-0013.0000
AE	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW5-0012.0000
AF	JAMES E. SHAW	07-TW5-0002.0000
AG	JAMES E. SHAW	07-TW5-0001.0000
AH	ROBIN S. STARKEY	07-TW4-0124.0000
AI	H3, LLC	07-TW4-0117.0000
AJ	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0118.0000
AK	CHAS L. & J.J. CRESAP	07-TW4-0119.0000
AL	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0120.0000
AM	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0121.0000
AN	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0126.0000
AO	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0122.0000
AP	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0128.0000
AQ	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0129.0000
AR	KATHRYN M. KNOLLINGER	07-TW8-0075.0000
AS	EVELYN D.N. GROVER	06-T7-0182.0000
AT	AUGUST FRANKLIN ROBINSON	06-T8-0043.0000
AU	THE OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-0040.0005
AV	THE OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-0040.0011
AW	JEWISH MEMORIAL PARK	07-TW12-0013.0001
AX	CONGREGATION L'SHEM SHOMAYIM	07-TW12-0013.0000
AY	KIRIJETTA DUKE CLARK	07-TW12-0001.0000
AZ	BRADLEY A. RUSSELL	07-TW12-0002.0000
BA	BRADLEY A. RUSSELL	07-TW12-0003.0000
BB	DOUGLAS W. KNOLLINGER	07-TW12-0004.0000
BC	ALFRED E. & D.M. MORRIS	07-TW12-0005.0000
BD	BRADLEY R. & DONNA L. MILLER	07-TW13-0001.0000
BE	BRADLEY R. & DONNA L. MILLER	07-TW13-0002.0000
BF	BRADLEY R. & DONNA L. MILLER	07-TW13-0003.0000
BG	MARGARET I. RUSSELL	07-TW13-0004.0000
BH	DESSIE ANN EIMER	07-TW13-0005.0000
BI	E.H. & M.L. MOORE	07-TW13-0006.0000
BJ	RANDY L. HINDMAN, LORI E. HINDMAN & JANICE L. HINDMAN	07-TW13-0007.0000
BK	RANDY L. & LORI E. HINDMAN	07-TW13-0008.0000
BL	CHARLES D. & SUSAN E. YUHASE	07-TW13-0009.0000
BM	JAMES B. JR. & J.O. WILLIAMS	07-TW13-0010.0000
BN	DEBORAH J. & R.L. PRAGER	07-TW13-0011.0001
BO	JOHN E. & DEBORAH A. VOSCAVITCH	07-TW13-0011.0000
BP	JOHN E. & DEBORAH A. VOSCAVITCH	07-TW13-0012.0000
BQ	VICKI LYNN & ROGER L. FROHNAPFEL	07-TW13-0013.0000
BR	BEVERLY S. COOK	07-TW13-0014.0000
BS	BEVERLY S. COOK	07-TW13-0015.0000
BT	DENNIS L. SR. & BEVERLY S. COOK	07-TW13-0016.0000
BU	DENNIS L. SR. & BEVERLY S. COOK	07-TW13-0016.0001
BV	DOUGLAS W. & SUSAN E. NELSON	07-TW13-0017.0000
BW	KATHRYN M. KNOLLINGER & WOODROW J. KNOLLINGER	07-TW13-0018.0000
BX	J. GREGORY & STACEY ANN DECARLO	07-TW13-0019.0000
BY	COLUMBIA GAS TRANSMISSION CORPORATION	06-T13-0005.0001
BZ	DAVID H. FITZSIMMONS & RICH H. FITZSIMMONS	06-T13-0005.0003
CA	ROBERT L. JR. & K.S. BOGARD	07-TW13-0005.0007
CB	ROBERT L. JR. & K.S. BOGARD	07-TW13-0005.0005

REVISIONS:

COMPANY:

SWN
Production Company, LLC

swn ^{R⁺} ^A ^{V⁺}
Production Company™

OPERATOR'S: BRIAN DYTKO OHI
WELL #: 5H ST1

DATE: 03-14-2019
API NO: 47-069-00265
DRAWN BY: D. REED
SCALE: N/A
DRAWING NO: 2017-300
WELL LOCATION PLAT



DISTRICT: TRIADDELPHIA COUNTY: OHIO STATE: WV

PROPERTY NUMBER 2501171037
PAD ID 3001155643

05/31/2019

TRACT	SURFACE OWNER (S) ROYALTY OWNER (R)	TAX PARCEL
1	BRIAN J DYTKO (S)(R)	08-118-004-0001
2	SURFACE OWNER	08-118-002-0000
3	WILLIAM G THOMAS	08-113-002-0003
4	JOHN W HOLAN JR AND DARLENE G HOLAN	08-113-003-0003
5	OHIO VALLEY INDUSTRIAL & BUSINESS DEVELOPMENT CORPORATION	08-113-003-0000
6	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	1-70
7	OHIO COUNTY COMMISSIONERS	07-1W10-0001-0000
8	THE OHIO COUNTY DEVELOPMENT AUTHORITY	07-1W6-0024-0001
9	OHIO COUNTY COMMISSIONERS	08-113-002-0000

TRACT	SURFACE OWNER	TAX PARCEL
A	THESEAN J SWATT	08-118-001-0000
B	GREGORY R & JULIAN T SANDOZ	08-118-002-0000
C	CHARLES D FISCHER JR	08-118-004-0000
D	RL WHITE PROPERTIES, LLC	08-118-002-0002
E	ROMAN & R.A. SWOBER	08-118-002-0004
F	ROGER A & MARY K CUTLER	08-113-003-0002
G	SETH & HEATHER MCCORD	08-113-003-0004
H	JOHN EDWARD MCCORD	08-113-003-0003
I	EDWARD MCCORD	08-113-003-0008
J	PAUL PARVACK	08-118-002-0000
K	MIDDLE CREEK GARAGE, INC.	08-113-002-0000
L	BRODLY W CLARK	08-113-004-0000
M	PAUL W BLAKE TRUST AGREEMENT DATED AUGUST 28, 2008	08-113-003-0001
N	OHIO VALLEY INDUSTRIAL DEVELOPMENT CORPORATION	08-113-002-0003
O	JERRY L & JOSEPHINE L MESTRINO	08-113-004-0000
P	EDWARD H I & MARIA M STEIN	08-113-004-0000
Q	CALE E CARPENTER	08-113-003-0001
R	D.R. KOEHL	08-113-002-0000
S	CALE E CARPENTER	08-113-003-0000
T	FLYNN J POORE	07-1W6-0001-0000
U	BOARD OF EDUCATION	07-1W6-002-0000
V	ROBERT A CARR & JESSICA E WULFUM-WARTH	07-1W6-0002-0000
W	ERIC LUGOWA	07-1W6-0001-0000
X	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	07-113-003-0000
Y	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	07-1W3-002-0001
Z	TRAVIS M KELLY	07-1W6-002-0000
AA	KEVIN SHEARER, PHILIP SHEARER, DAVID SHEARER & PAUL SHEARER	07-1W6-001-0000
AB	MARK T MORRIS & DAVID B MORRIS (SUBJECT TO THE ESTATE OF JAMES L MORRIS & MARY A MORRIS, HUSBAND AND WIFE)	07-1W6-002-0000
AC	MOUNTAIN ESTATE REALTY, LLC	07-1W6-001-0000
AD	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-001-0000
AE	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-001-0000
AF	JAMES E SHAW	07-1W6-002-0000
AG	JAMES E SHAW	07-1W6-001-0000
AH	ROBIN S STARKY	07-1W6-012-0000
AI	HTJ, LLC	07-1W6-011-0000
AJ	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-018-0000
AK	CHAS L & J.L. CRESAP	07-1W6-018-0000
AL	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-018-0000
AM	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-012-0000
AN	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-012-0000
AO	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-012-0000
AP	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-012-0000
AQ	MOTOWN MOBILE HOMES, INC. & TIM T & PATRICIA A TEMPLE	07-1W6-012-0000
AR	KATHRYN M KNOLLMEYER	07-1W6-012-0000
AS	EVELYN D.N. BRODER	08-11-012-0000
AT	AUGUST FREDERICK ROBINSON	08-18-004-0000
AU	THE OHIO COUNTY DEVELOPMENT AUTHORITY	08-18-004-0000
AV	THE OHIO COUNTY DEVELOPMENT AUTHORITY	08-18-004-0011
AW	LEWIS MEMORIAL PARK	07-1W13-001-0001
AX	CONGREGATION 'SHEM SHOMAYIM	07-1W13-001-0000
AY	KRISTITA DUKE CLARK	07-1W13-001-0000
AZ	BRODLY A RUSSELL	07-1W13-0003-0000
BA	BRODLY A RUSSELL	07-1W13-0007-0000
BB	DOUGLAS W KNOLLMEYER	07-1W13-0004-0000
BC	ALFRED E & D.M. MORRIS	07-1W13-0002-0000
BD	BRODLY R & DONNA L WILDER	07-1W13-0001-0000
BE	BRODLY R & DONNA L WILDER	07-1W13-0003-0000
BF	BRODLY R & DONNA L WILDER	07-1W13-0002-0000
BG	MARGARET I RUSSELL	07-1W13-0004-0000
BH	DEBBE ANN EMER	07-1W13-0002-0000
BI	CH & M.J. MOORE	07-1W13-0008-0000
BJ	RANDY L HINDMAN, LOB E HINDMAN & JANICE L HINDMAN	07-1W13-0007-0000
BK	RANDY L & LOB E HINDMAN	07-1W13-0008-0000
BL	CHARLES D & SUSAN E YURKZE	07-1W13-0008-0000
BM	JAMES B JR & L.O. WILLIAMS	07-1W13-0010-0000
BN	DEBORAH L & R.L. FRACER	07-1W13-0011-0001
BO	JOHN E & DEBORAH A VOSCAMTCH	07-1W13-0011-0000
BP	JOHN E & DEBORAH A VOSCAMTCH	07-1W13-0012-0000
BQ	NIKI LYNN & ROGER L FOSHWAYTE	07-1W13-0012-0000
BR	BEVERLY S COOK	07-1W13-0014-0000
BS	BEVERLY S COOK	07-1W13-0015-0000
BT	DENNIS L SR & BEVERLY S COOK	07-1W13-0016-0000
BU	DENNIS L SR & BEVERLY S COOK	07-1W13-0018-0001
BV	DOUGLAS W & SUSAN E NELSON	07-1W13-0017-0000
BW	KATHRYN M KNOLLMEYER & WOODROW J KNOLLMEYER	07-1W13-0018-0000
BX	J GREGORY & STACY ANN DECARLO	07-1W13-0018-0000
BY	COLUMBIA GAS TRANSMISSION CORPORATION	08-113-002-0001
BZ	DAVID H FITZSIMMONS & ROSE H FITZSIMMONS	08-113-002-0002
CA	ROBERT L JR & K.Z. BOGARD	07-1W13-0009-0000
CB	ROBERT L JR & K.Z. BOGARD	07-1W13-0002-0000

				COMPANY:		REVISIONS:	
DATE: 03-14-2019 API NO: 47-089-00285 DRAWN BY: D. REED SCALE: N/A DRAWING NO: 2017-300 WELL LOCATION PLAT		OPERATOR'S: BRIAN DYTKO OHI		WELL #: SH ST1			
STATE: WV		COUNTY: OHIO		DISTRICT: TRIADDELPHIA			