

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

API 47 - 069 - 00264 County OHIO District TRIADELPHIA
Quad VALLEY GROVE, WV & WHEELING, WV Pad Name BRYAN DYTOKO OHI PAD 1 Field/Pool Name PANHANDLE FIELD WET
Farm name BRYAN J. DYTOKO Well Number BRIAN DYTOKO OHI 3H
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 4,431,157.24 Easting 533,452.35
Landing Point of Curve Northing 4,431,325.04 Easting 533,336.32
Bottom Hole Northing 4,433,335.26 Easting 531,746.99

Elevation (ft) 1222.7' 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

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Date permit issued 3/20/2018 Date drilling commenced 5/4/2018 Date drilling ceased 5/17/2018
Date completion activities began 1/4/2019 Date completion activities ceased 2/15/2019
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

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

Reviewed by:
Reviewed
CAO 5-28-19

WR-35
Rev. 8/23/13

API 47-069 00264 Farm name BRYAN J. DYTKO Well number BRIAN DYTKO OHI 3H

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	676	NEW	J-55/54.5#		Y, 50 BBLS
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1972	NEW	H-40/36#		Y, 19 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	15147	NEW	HCP-110/20#		Y
Tubing		2.375	6675	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	15.60	1.20	844.8	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	733	15.60	1.18	864.94	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,803	15.60	1.18	3307.54	SURFACE	24
Tubing							

Drillers TD (ft) 15.147 Loggers TD (ft) 15.147
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5640'

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

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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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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:	47-069-00264-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Brian Dytko OHI 3
Latitude:	40.02997009
Longitude:	-80.60793010
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,318
Total Base Water Volume (gal):	9,415,478
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
Base Water	Operator	Base Fluid					
				Listed Below			
BIOC11219A	Nalco	Biocide					
				Listed Below			

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FLOJET DR 9000LPP	SWN Well Services	Friction Reducer				Listed Below			
HCL	SWN Well Services	Solvent				Listed Below			
SCAL16486A	Nalco	Scale Inhibitor				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor				Listed Below			
SWN FRW-10LA	SWN Well Services	Friction Reducer				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control				Listed Below			
Sand	SWN Well Services	Proppant				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.									
			Water			7732-18-5	100.00000	87.37755	Density = 8.345
			Crystalline Silica, quartz			14808-60-7	100.00000	11.81526	
			Water			7732-18-5	85.00000	0.62222	
			Hydrochloric Acid			7647-01-0	15.00000	0.10277	
			Petroleum Distillates, Hydrotreated			64742-47-8	45.00000	0.03915	

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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	15,061	14,966	
2	1/4/2019	14,949	14,847	45
3	1/5/2019	14,824	14,717	45
4	1/5/2019	14,699	14,597	45
5	1/6/2019	14,574	14,472	36
6	1/6/2019	14,449	14,347	45
7	1/7/2019	14,318	14,222	45
8	1/7/2019	14,199	14,097	45
9	1/7/2019	14,074	13,972	45
10	1/8/2019	13,949	13,847	45
11	1/8/2019	13,818	13,722	45
12	1/9/2019	13,699	13,600	45
13	1/9/2019	13,574	13,476	45
14	1/10/2019	13,449	13,347	45
15	1/11/2019	13,324	13,222	45
16	1/11/2019	13,199	13,097	45
17	1/12/2019	13,075	12,972	45
18	1/12/2019	12,944	12,847	45
19	1/13/2019	12,824	12,722	45
20	1/13/2019	12,699	12,597	45
21	1/14/2019	12,574	12,472	45
22	1/15/2019	12,446	12,347	45
23	1/15/2019	12,319	12,222	45
24	1/15/2019	12,199	12,102	45
25	1/16/2019	12,074	11,972	45
26	1/16/2019	11,949	11,847	45
27	1/16/2019	11,824	11,722	45
28	1/17/2019	11,701	11,597	45
29	1/17/2019	11,568	11,472	45
30	1/17/2019	11,448	11,347	45
31	1/18/2019	11,324	11,222	45
32	1/18/2019	11,194	11,097	45
33	1/18/2019	11,069	10,972	45
34	1/19/2019	10,949	10,852	45
35	1/19/2019	10,824	10,721	36
36	1/19/2019	10,699	10,597	45
37	1/20/2019	10,574	10,472	45
38	1/20/2019	10,449	10,347	45
39	1/24/2019	10,326	10,222	45
40	1/24/2019	10,195	10,097	45
41	1/25/2019	10,074	9,972	45
42	1/25/2019	9,949	9,847	45
43	1/26/2019	9,824	9,722	45
44	1/26/2019	9,699	9,597	45
45	1/26/2019	9,574	9,472	45
46	1/27/2019	9,449	9,351	45
47	1/27/2019	9,324	9,222	45
48	1/27/2019	9,199	9,097	45
49	1/27/2019	9,074	8,972	45
50	1/28/2019	8,949	8,847	45
51	1/28/2019	8,820	8,722	45
52	1/28/2019	8,699	8,597	45
53	1/28/2019	8,574	8,472	45
54	1/29/2019	8,449	8,347	45
55	1/29/2019	8,324	8,222	45
56	1/29/2019	8,199	8,097	45
57	1/29/2019	8,074	7,972	45
58	1/30/2019	7,944	7,847	45
59	1/30/2019	7,818	7,722	45
60	1/30/2019	7,696	7,598	45
61	1/31/2019	7,574	7,472	45
62	2/1/2019	7,449	7,342	45
63	2/1/2019	7,319	7,219	45
64	2/1/2019	7,200	7,094	45
65	2/2/2019	7,074	6,972	45

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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 bbbls	Amount of nitrogen/othe
1	1/4/2019	73	7,602	7,789	1,350	155,040	3,286	0
2	1/4/2019	100	8,105	4,523	4,852	153,580	3,610	0
3	1/5/2019	90	7,122	5,011	4,401	155,380	3,987	0
4	1/5/2019	94	8,059	5,076	5,079	155,740	3,406	0
5	1/6/2019	69	8,018	5,911	4,097	156,120	4,262	0
6	1/6/2019	91	8,166	4,432	4,262	158,815	3,408	0
7	1/7/2019	90	8,130	5,162	4,952	156,280	3,299	0
8	1/7/2019	94	8,173	6,154	4,536	159,145	3,483	0
9	1/8/2019	91	7,873	6,304	4,363	161,865	3,581	0
10	1/8/2019	95	8,111	5,684	4,833	155,640	3,246	0
11	1/9/2019	90	7,854	5,798	4,226	155,330	3,239	0
12	1/9/2019	87	7,976	4,057	4,654	159,585	3,488	0
13	1/10/2019	87	7,594	5,611	4,981	153,980	3,557	0
14	1/11/2019	93	7,861	4,987	4,891	152,550	3,288	0
15	1/11/2019	97	7,762	5,663	4,756	162,705	3,528	0
16	1/11/2019	89	7,941	5,751	4,756	154,880	3,281	0
17	1/12/2019	99	7,869	5,712	4,635	158,745	3,480	0
18	1/12/2019	91	7,979	5,785	4,702	151,520	3,323	0
19	1/13/2019	92	7,960	5,328	4,494	156,360	3,333	0
20	1/13/2019	89	7,813	5,931	4,494	156,360	3,382	0
21	1/14/2019	87	7,846	6,138	4,484	149,870	3,131	0
22	1/15/2019	85	7,868	6,448	4,474	149,870	3,868	0
23	1/15/2019	92	7,760	5,626	5,037	155,740	3,514	0
24	1/15/2019	85	7,624	5,455	4,597	161,220	3,201	0
25	1/16/2019	95	7,421	5,404	4,615	155,230	3,325	0
26	1/16/2019	86	7,382	5,249	4,873	150,630	3,440	0
27	1/17/2019	76	8,007	5,189	4,444	155,680	3,050	0
28	1/17/2019	83	7,096	5,494	4,870	159,150	3,437	0
29	1/17/2019	89	7,631	5,403	4,457	156,970	3,470	0
30	1/18/2019	87	7,743	6,341	4,457	145,258	3,202	0
31	1/18/2019	83	7,010	5,762	4,796	156,500	3,286	0
32	1/18/2019	82	7,463	5,510	4,622	150,650	3,269	0
33	1/18/2019	70	7,504	4,999	4,702	109,620	5,777	0
34	1/19/2019	50	7,596	6,030	4,664	153,980	3,536	0
35	1/19/2019	81	7,615	5,960	4,599	153,980	3,277	0
36	1/19/2019	75	7,583	5,717	4,480	153,690	3,284	0
37	1/20/2019	82	7,589	6,338	4,574	153,690	3,146	0
38	1/24/2019	84	8,194	6,458	3,972	157,120	3,438	0
39	1/24/2019	85	8,349	5,758	3,939	157,100	2,910	0
40	1/25/2019	90	7,982	6,115	4,108	161,000	3,000	0
41	1/25/2019	94	7,651	4,303	4,553	160,180	3,245	0
42	1/26/2019	91	7,984	6,746	4,752	152,740	2,968	0
43	1/26/2019	93	7,261	5,575	4,424	152,740	3,118	0
44	1/26/2019	88	7,314	5,493	4,802	158,320	3,034	0
45	1/26/2019	93	7,602	6,117	4,327	160,140	2,791	0
46	1/27/2019	91	7,892	5,208	4,616	155,620	3,195	0
47	1/27/2019	91	7,320	5,907	4,806	153,500	3,141	0
48	1/27/2019	88	7,704	5,911	4,816	150,880	3,171	0
49	1/27/2019	92	7,264	5,818	4,604	153,440	2,816	0
50	1/28/2019	93	7,706	6,212	4,255	153,860	2,757	0
51	1/28/2019	90	7,454	5,927	4,618	158,740	3,285	0
52	1/28/2019	89	7,505	5,725	4,650	158,630	3,100	0
53	1/29/2019	86	7,685	5,159	4,612	176,060	2,759	0
54	1/29/2019	94	7,720	6,068	4,911	157,280	3,024	0
55	1/29/2019	94	7,984	6,049	4,852	154,380	2,813	0
56	1/29/2019	93	7,659	5,974	5,210	155,240	2,606	0
57	1/29/2019	80	7,391	5,741	4,818	160,000	2,631	0
58	1/30/2019	75	7,233	5,721	4,610	132,580	3,667	0
59	1/30/2019	96	7,582	5,679	5,217	157,120	3,256	0
60	1/31/2019	92	7,336	5,216	5,374	157,680	4,053	0
61	1/31/2019	93	6,954	5,690	5,112	165,090	3,086	0
62	2/1/2019	96	6,628	5,508	4,532	151,540	3,028	0
63	2/1/2019	97	6,748	5,356	4,453	155,230	2,972	0
64	2/1/2019	97	6,843	6,170	4,599	159,440	2,958	0
65	2/2/2019	96	7,067	5,752	4,410	154,580	2,941	0
66	2/2/2019	95	7,265	5,323	4,698	156,210	2,875	0
67	2/2/2019	87	7,575	6,219	4,703	282,155	4,698	0
68	2/2/2019	95	7,137	5,485	4,825	272,570	3,863	0

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Well Name: Brian Dytko OHI 3H

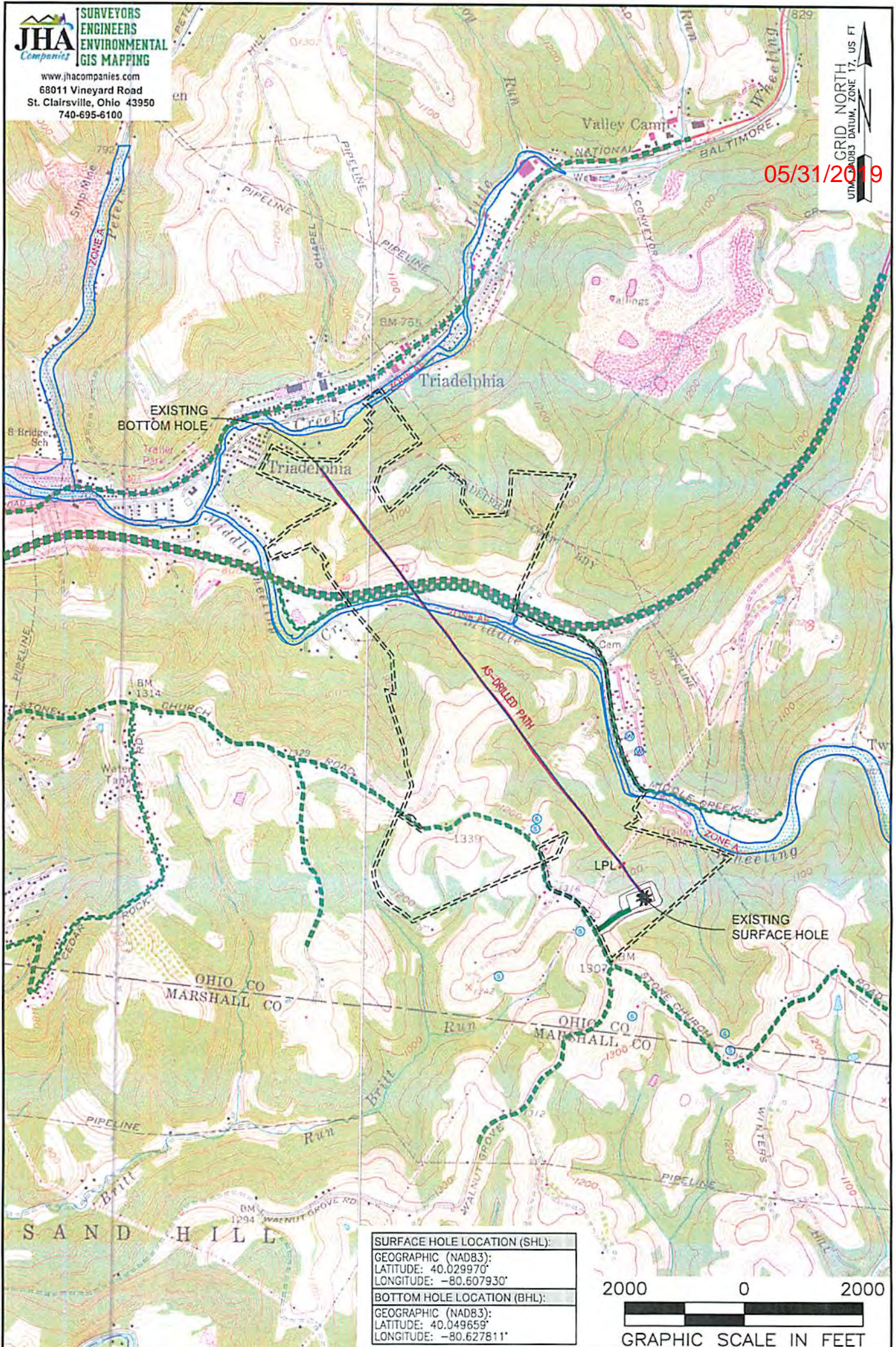
Attachment 3

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	
Rhinestreet (shale)	5746.00	5742.00	6048.00	6029.00	
Cashaqua (shale)	6048.00	6029.00	6130.00	6098.00	
Middlesex (shale)	6130.00	6098.00	6253.00	6192.00	
Burket (shale)	6253.00	6192.00	6264.00	6199.00	
Tully (ls)	6264.00	6199.00	6317.00	6233.00	
Mahantango (shale)	6317.00	6233.00	6522.00	6332.00	
Marcellus (shale)	6522.00	6332.00	NA	NA	GAS

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SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.029970°
LONGITUDE: -80.607930°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.049659°
LONGITUDE: -80.627811°

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	ACCESS ROAD
EXISTING / PRODUCING WELLHEAD	PUBLIC ROAD	ACCESS ROAD TO PREV. SITE
LPL* LANDING POINT LOCATION	LEASE BOUNDARY	PROPOSED PATH
FLOOD PLAN	AS-DRILLED PATH	

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: BRIAN DYTKO OH	WELL # 3H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT: TRIADELPHIA	API NO: 47-069-00264
SURFACE OWNER: BRIAN J. DYTKO	USGS 7 1/2 QUADRANGLE MAP NAME: VALLEY GROVE, WV & WHEELING, WV		

LATITUDE: 40°02'30" SURFACE HOLE

6945'

LATITUDE: 40°05'00" BOTTOM HOLE

787'

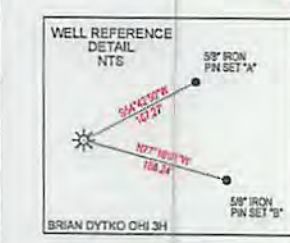


www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

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 300 FEET OF PROPOSED WELL.

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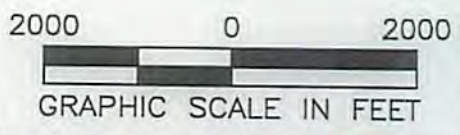
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4431157.24 EASTING: 533452.35
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4431325.04 EASTING: 533336.32
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4433335.26 EASTING: 531746.99

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4431157.23 EASTING: 533452.38
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4431320.94 EASTING: 533339.49
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4433336.39 EASTING: 531748.51

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



LINE	BEARING	DISTANCE
L1	S56°10'40"W	2190.70'
L2	S50°23'34"W	1853.86'



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

BRIAN DYTKO OH
OPERATOR'S WELL #: 3H
API WELL #: 47 069 00264
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: OHIO UPPER SOUTH
DISTRICT: TRIADDELPHIA COUNTY: OHIO
SURFACE OWNER: BRIAN J. DYTKO
OIL & GAS ROYALTY OWNER: BRIAN J. DYTKO
ELEVATION: 1222.7'
QUADRANGLE: VALLEY GROVE, WV & WHEELING, WV
ACREAGE: ±41.00
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: 6,365' TVD 15,147' 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

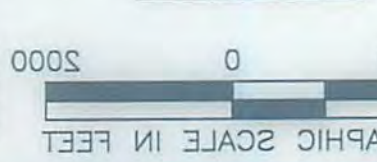
LEGEND:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE
* EXISTING / PRODUCING WELLHEAD
LPL * LANDING POINT LOCATION
* EXISTING WATER WELL
⊙ EXISTING SPRING
— SURVEYED BOUNDARY
===== LEASE BOUNDARY
— ASDRILLED PATH
— PROPOSED PATH

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. 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. THE PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 2. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 3. NO PERMANENT STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 4. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
 5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 300 FEET OF PROPOSED WELL.



LINE	BEARING	DISTANCE
L1	S89°10'49"W	2100.76'
L2	S20°23'24"W	1827.86'



GRAPHIC SCALE IN FEET

LONGITUDE: -80.23,30" BOLLOW HOLE
 LONGITUDE: -80.23,00" SURFACE HOLE
 LATITUDE: 40.02,00" BOTTOM HOLE
 LATITUDE: 40.02,30" SURFACE HOLE

GRID NORTH
 NAD 83 DATUM, ZONE 17, U.S. FOOT

EXISTING WELLS
 SCALE: 1"=3000'
 3000'

EXISTING SPRING
 L.P.L. LANDING POINT LOCATION
 SURVEYED BOUNDARY
 AS-DRILLED PATH
 PROPOSED PATH

PROPOSED SURFACE HOLE \ BOTTOM HOLE
 EXISTING \ PRODUCING WELLS
 EXISTING WATER WELL
 EXISTING SPRING

LOCATION	UTM (NAD83, ZONE 17, METERS)	NORTHING	EASTING
BOTTOM HOLE LOCATION (BHL)	UTM (NAD83, ZONE 17, METERS): NORTHING: 4433328.28, EASTING: 521248.99	4433328.28	521248.99
LANDING POINT LOCATION (LPL)	UTM (NAD83, ZONE 17, METERS): NORTHING: 4431250.94, EASTING: 523328.49	4431250.94	523328.49
SURFACE HOLE LOCATION (SHL)	UTM (NAD83, ZONE 17, METERS): NORTHING: 4431152.23, EASTING: 523452.28	4431152.23	523452.28

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
 WATERSHED: OHIO UPPER SOUTH
 DISTRICT: TRIADAPLHIA
 COUNTY: OHIO
 SURFACE OWNER: BRIAN J. DYKOWSKI
 OIL & GAS ROYALTY OWNER: BRIAN J. DYKOWSKI
 ACREAGE: ±41.00
 QUADRANGLE: VALLEY GROVE, WA & WHEELING, WA
 ELEVATION: 1322.7'
 TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: 6,385' TVD 12,147' TMD
 OTHER CHANGE (SPECIFY) AS-DRILLED
 PERFORATE NEW FORMATION
 DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG

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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	BRIAN J DYTKO (S)/(R)	06-T18-0004.0001	41.00
TRACT SURFACE OWNER TAX PARCEL ACRES			
2	WILLIAM G. THOMAS	06-T18-0003.0000	46.50
3	SETH McCORD AND HEATHER McCORD	06-T13-0002.0004	4.30
4	JOHN EDWARD McCORD	06-T13-0002.0003	12.10
5	EDWARD McCORD	06-T13-0002.0006	15.66
6	JOHN W. NOLAN, JR. AND DARLENE G. NOLAN	06-T13-0002.0002	42.45
7	DEBORAH PAWLAK	06-T18-0001.0000	109.839
8	MIDDLE CREEK GARAGE, INC.	06-T13-0003.0000	80.14
9	OHIO VALLEY INDUSTRIAL & BUSINESS DEVELOPMENT CORPORATION	06-T13-0026.0000	130.69
10	OHIO VALLEY INDUSTRIAL & BUSINESS DEVELOPMENT CORPORATION	06-T13-0026.0001	3.00
11	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	N/A	N/A
12	OHIO COUNTY COMMISSION	07-TW10-0001.0000	106.51
13	MARK T. MORRIS & DAVID B. MORRIS, SUBJECT TO THE LIFE ESTATE OF JAMES L. MORRIS AND MARY A. MORRIS	07-TW5-0023.0000	29.00
14	OHIO COUNTY COMMISSION	06-T12-0053.0000	39.31

05/31/2019

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	THERESA L BLATT	06-T18-0017.0000	37.80
B	GREGORY W. & WILLIAM F. GARDNER	06-T18-0025.0000	0.799
C	CHARLES D. FISCHER, JR.	06-T18-0004.0000	32.90
D	R.L. WHITE PROPERTIES	06-T18-0003.0002	16.265
E	RONALD J. & P.A. SHYDER	06-T18-0003.0004	2.1861
F	ROGER A. & MARY K. CLUTTER	06-T13-0002.0005	2.50
G	R.L. WHITE PROPERTIES, INC.	06-T18-0002.0000	87.8094
H	HAROLD R. II & CONNIE A. GARRETT	06-T18-0001.0001	36.30
I	MARK A. & MELINA D. SMITH	06-T12-0051.0000	23.646
J	HILTOP COMMUNITY ASSOCIATION	06-T13-0004.0000	0.050
K	KENNETH C HARTZELL	06-T12-0051.0002	0.75
L	KENNETH C HARTZELL	06-T12-0051.0001	0.75
M	WESBANCO TRUST & INVESTMENT, A DIVISION OF WESBANCO BANK, INC., AS TRUSTEE OF THE JOSEPH PAUL FORSHEY TRUST AGREEMENT DATED APRIL 13, 1990	06-T12-0047.0000	12.21
N	CAROL L. CONNOR	06-T12-0052.0000	11.50
O	BRADLEY W. CLARK	06-T12-0044.0000	7.470
P	PAUL W. & WIGNON R. BLAKE (ACCORDING TO DB 916/346-BOTH DECEASED-SECURITY NATIONAL TRUST CO. IS EXECUTOR OF THE ESTATE OF PAUL W. BLAKE, DECEASED)	06-T12-0038.0001	4.00
Q	JERRY J. & J.L. MESTROVIC	06-T12-0041.0000	1.00
R	EDWARD H., II & M.M. STEIN	06-T12-0043.0000	0.551
S	VICO SHEARER, PHILIP SHEARER, DAVID SHEARER & PAUL SHEARER	07-TW5-0021.0000	7.44
T	EFFIE WADDE REVDN & PAULA JANE CROW	07-TW5-0020.0001	0.0924
U	TRAVIS M. KELLY	07-TW5-0020.0000	0.3443
V	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	07-TW2-0057.0001	11.123
W	JOSEPH L. VESPA	07-TW5-0019.0000	0.945
X	MOUNTAIN ESTATE REALTY, LLC.	07-TW5-0014.0000	15.30
Y	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW5-0013.0000	3.87
Z	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW5-0012.0000	0.2172
AA	JAMES E. SHAW	07-TW5-0002.0000	0.1484
AB	JAMES E. SHAW	07-TW5-0001.0000	0.111
AC	ROBIN S. STARKEY	07-TW4-0124.0000	2.402
AD	H3, LLC	07-TW4-0117.0000	0.350
AE	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0118.0000	0.20
AF	CHAS L. & J.J. CRESAP	07-TW4-0119.0000	0.183
AG	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0120.0000	0.20
AH	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0121.0000	3.00
AI	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0126.0000	9.308
AJ	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0122.0000	0.33
AK	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0128.0000	1.19
AL	MIDTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLIN	07-TW4-0129.0000	2.080
AM	KATHYRN M. KNOLLINGER	07-TW8-0075.0000	1.659
AN	EVELYN D.N. GROVER	06-T7-0182.0000	4.020
AO	AUGUST FRANKLIN ROBINSON	06-T8-0043.0000	4.65
AP	THE OHIO COUNTY DEVELOPMENT AUTHORITY	07-TW5-0024.0001	14.00
AQ	THE OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-0040.0005	117.806
AR	THE OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-0040.0011	237.405
AS	JEWISH MEMORIAL PARK ASSOCIATION	07-TW12-0013.0001	0.54
AT	CONGREGATION L'SHEM SHOMAYIM	07-TW12-0013.0000	13.19
AU	RONALD E. & K.D. CLARK	07-TW12-0001.0000	4.60
AV	BRADLEY A RUSSELL	07-TW12-0002.0000	0.3466
AW	BRADLEY A RUSSELL	07-TW12-0003.0000	0.3627
AX	DOUGLAS W. KNOLLINGER (HUSBAND OF RUTH A. KNOLLINGER)	07-TW12-0004.0000	0.1882
AY	ALFRED E. & D.M. MORRIS	07-TW12-0005.0000	0.39
AZ	BRADLEY R. & DONNA L. MILLER	07-TW13-0001.0000	0.1997
BA	BRADLEY R. & DONNA L. MILLER	07-TW13-0002.0000	0.202
BB	BRADLEY R. & DONNA L. MILLER	07-TW13-0003.0000	0.2055
BC	BERNARD E. JR. & MARGARET RUSSELL	07-TW13-0004.0000	0.4155
BD	DESSIE ANN EMER	07-TW13-0005.0000	0.4132
BE	MARGARET L. MOORE	07-TW13-0006.0000	0.2066
BF	RANDY L. HINDMAN, LOR E. HINDMAN & JANICE L. HINDMAN	07-TW13-0007.0000	0.2055
BG	RANDY L. & LOR E. HINDMAN	07-TW13-0008.0000	0.4066
BH	SUSAN ELLEN YLHASE	07-TW13-0009.0000	0.2043
BI	JAMES B. JR. & J.D. WILLIAMS	07-TW13-0010.0000	0.5832
BJ	DEBORAH J. & R.L. FRAGER	07-TW13-0011.0001	0.1894
BK	ANNABELLE J. VOSCAVITCH	07-TW13-0011.0000	0.3571
BL	JOHN E. & DEBORAH A. VOSCAVITCH	07-TW13-0012.0000	0.4826
BM	VICKI LYNN & ROGER L. FRONHAPPEL	07-TW13-0013.0000	0.2932
BN	DENNIS L. COOK, SR. & BEVERLY S. COOK	07-TW13-0014.0000	0.1806
BO	DENNIS L. COOK, SR. & BEVERLY S. COOK	07-TW13-0015.0000	0.1881
BP	DENNIS L. COOK, SR. & BEVERLY S. COOK	07-TW13-0016.0000	0.294
BQ	DENNIS L. COOK, SR. & BEVERLY S. COOK	07-TW13-0016.0001	0.2780
BR	DOUGLAS W. & SUSAN E. NELSON	07-TW13-0017.0000	0.3421
BS	KATHYRN M. KNOLLINGER & WOODROW J. KNOLLINGER	07-TW13-0018.0000	0.3455
BT	J. GREGORY & STACEY ANN DECARLO	07-TW13-0019.0000	1.00
BU	OK TRAILER COURT, INC.	06-T13-0005.0002	16.86
BV	ROBERT LEE, JR. & KATHERINE STEPHENS BOGARD	06-T13-0005.0007	4.72
BW	ROBERT LEE, JR. & KATHERINE STEPHENS BOGARD	06-T13-0005.0005	4.72

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R-V+0}
Production Company™



OPERATOR'S: BRIAN DYTKO OHI
WELL #: 3H
DISTRICT: TRIADDELPHIA COUNTY: OHIO STATE: WV

DATE: 03-14-2019
API NO: 47-069-00264
DRAWN BY: D. REED
SCALE: N/A
DRAWING NO: 2017-300
WELL LOCATION PLAT

PROPERTY NUMBER 2501163612
PAD ID 3001155643

05/31/2019

TRACT	SURFACE OWNER (S) (ROYALTY OWNER (R))	TAX PARCEL	ACRES
14	OHIO COUNTY COMMISSION	08-113-0021.0000	28.71
13	MARK T. MORSE & SONS B. MORSE SUCCESSION TO THE LIFE ESTATE OF MARK T. MORSE AND SONS	07-190-0001.0000	28.00
12	OHIO COUNTY COMMISSION	07-191-0001.0000	108.21
11	N/A	N/A	N/A
10	OHIO WELLS INDUSTRIES & BUSINESS DEVELOPMENT CORPORATION	08-113-0028.0001	3.00
9	OHIO WELLS INDUSTRIES & BUSINESS DEVELOPMENT CORPORATION	08-113-0028.0002	120.88
8	MOORE CREEK ENERGY, INC.	08-113-0028.0003	80.14
7	DEBORAH PARKER	08-113-0028.0004	109.828
6	JOHN W. MOHR, JR. AND BARBARA D. MOHR	08-113-0028.0005	42.48
5	EDWARD MCCORD	08-113-0028.0006	12.88
4	JOHN EDWARD MCCORD	08-113-0028.0007	12.10
3	EDWARD MCCORD AND HEATHER MCCORD	08-113-0028.0008	4.30
2	WILLIAM D. THOMAS	08-113-0028.0009	48.50
1	BRIAN D. DYCK (S) (R)	08-113-0028.0010	41.00
14	OHIO COUNTY COMMISSION	08-113-0021.0000	28.71
13	MARK T. MORSE & SONS B. MORSE SUCCESSION TO THE LIFE ESTATE OF MARK T. MORSE AND SONS	07-190-0001.0000	28.00
12	OHIO COUNTY COMMISSION	07-191-0001.0000	108.21
11	N/A	N/A	N/A
10	OHIO WELLS INDUSTRIES & BUSINESS DEVELOPMENT CORPORATION	08-113-0028.0001	3.00
9	OHIO WELLS INDUSTRIES & BUSINESS DEVELOPMENT CORPORATION	08-113-0028.0002	120.88
8	MOORE CREEK ENERGY, INC.	08-113-0028.0003	80.14
7	DEBORAH PARKER	08-113-0028.0004	109.828
6	JOHN W. MOHR, JR. AND BARBARA D. MOHR	08-113-0028.0005	42.48
5	EDWARD MCCORD	08-113-0028.0006	12.88
4	JOHN EDWARD MCCORD	08-113-0028.0007	12.10
3	EDWARD MCCORD AND HEATHER MCCORD	08-113-0028.0008	4.30
2	WILLIAM D. THOMAS	08-113-0028.0009	48.50
1	BRIAN D. DYCK (S) (R)	08-113-0028.0010	41.00
A	THEODORE J. BLATT	08-113-0027.0000	21.80
B	GREGORY R. & SILLIA T. LANGRISH	08-113-0028.0000	0.298
C	CHARLES D. RICKER, JR.	08-113-0028.0000	25.20
D	R.L. WHITE PROPERTIES	08-113-0028.0000	18.288
E	HOWARD J. & P.A. SWANSON	08-113-0028.0004	5.1861
F	ROBERT A. & MARY K. CULLEN	08-113-0028.0008	5.50
G	R.L. WHITE PROPERTIES, INC.	08-113-0028.0000	81.8084
H	HAROLD R. & CORINE A. DANFELT	08-113-0027.0001	26.20
I	MARK A. & MELBA D. SMITH	08-113-0027.0005	23.848
J	HILLTOP COMMUNITY ASSOCIATION	08-113-0027.0000	0.000
K	KENNETH C. WATZELL	08-113-0027.0002	0.28
L	KENNETH C. WATZELL	08-113-0027.0001	0.28
M	WESTBROOK TRUST & INVESTMENT A DIVISION OF WESTBROOK BANK, INC., AS TRUSTEE OF THE WELLS FUND FOR THE TRUST AGREEMENT DATED APRIL 17, 1980	08-113-0027.0000	12.21
N	DAVID J. CONNOR	08-113-0028.0000	11.50
O	BRADLEY W. CLARK	08-113-0028.0000	1.410
P	PAT W. & MARGA R. BLAKE (ACCORDING TO DE 818,148-8014 DECEASED-RECORDING INSTRUMENT REC. & EXEMPTOR OF THE ESTATE OF PAT W. BLAKE, DECEASED)	08-113-0028.0001	4.00
Q	JERRY E. & J.L. WESTON	08-113-0028.0000	1.00
R	EDWARD H. T. & M.M. STEIN	08-113-0028.0000	0.282
S	MOO SHEARER PHILIP SHEARER, DAVID SHEARER & PAUL SHEARER	07-190-0001.0000	1.44
T	ELITE WOODS REALTY & INVESTMENT, INC.	07-190-0020.0001	0.0284
U	TRAVIS M. KELLY	07-190-0020.0000	0.2443
V	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	07-190-0027.0001	11.123
W	JOSEPH J. WEAVER	07-190-0019.0000	0.840
X	MOUNTAIN ESTATE REALTY, LLC	07-190-0019.0000	18.20
Y	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0012.0000	2.87
Z	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0012.0000	0.212
AA	JAMES E. SHAW	07-190-0003.0000	0.184
AB	JAMES E. SHAW	07-190-0001.0000	0.111
AC	ROBIN S. STARKEY	07-190-0123.0000	3.403
AD	1, 11, LLC	07-190-0117.0000	0.250
AE	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0118.0000	0.20
AF	ONE J. & J.L. CRENSHAW	07-190-0118.0000	0.183
AG	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0120.0000	0.20
AH	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0121.0000	2.00
AI	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0122.0000	2.208
AJ	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0123.0000	0.22
AK	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0123.0000	1.19
AL	MOTOWN MOBILE HOMES, INC. & TIM T. & PATRICIA A. TEMPLE	07-190-0123.0000	5.080
AM	KATHLEEN M. KNOX	07-190-0020.0000	1.888
AN	EVLYN D.M. GROWER	08-113-0182.0000	4.020
AO	AUGUST FRANKLIN ROBINSON	08-113-0042.0000	4.88
AP	THE OHIO COUNTY DEVELOPMENT AUTHORITY	07-190-0024.0001	14.00
AQ	THE OHIO COUNTY DEVELOPMENT AUTHORITY	08-108-0040.0000	117.808
AR	THE OHIO COUNTY DEVELOPMENT AUTHORITY	08-108-0040.0011	221.402
AS	LEHIGH MEMORIAL PARK ASSOCIATION	07-191-0012.0001	0.24
AT	CONGREGATION LEHIGH SHAWNAH	07-191-0012.0000	1.218
AU	HOWARD E. & K.D. CLARK	07-191-0001.0000	80
AV	BRADLEY A. RUSSELL	07-191-0003.0000	0.2488
AW	BRADLEY A. RUSSELL	07-191-0003.0000	0.2823
AX	DOUGLAS W. KNOX (SUCCESSION OF RUTH A. KNOX)	07-191-0003.0000	0.1883
AY	ALFRED C. & D.M. MORSE	07-191-0002.0000	0.28
AZ	BRADLEY R. & DONNA J. WELLS	07-191-0001.0000	0.1923
BA	BRADLEY R. & DONNA J. WELLS	07-191-0002.0000	0.202
BB	BRADLEY R. & DONNA J. WELLS	07-191-0002.0000	0.2028
BC	BERNARD E. JR. & MARGARET RUSSELL	07-191-0004.0000	0.4122
BD	DEBBIE ANN EMER	07-191-0002.0000	0.4122
BE	MARGARET L. MOORE	07-191-0008.0000	0.2088
BF	RANDY L. HINDMAN, LORR E. HINDMAN & JAMES L. HINDMAN	07-191-0007.0000	0.2082
BG	RANDY L. HINDMAN, LORR E. HINDMAN	07-191-0008.0000	0.4088
BH	SHAWN ELLEN FRYBARGER	07-191-0008.0000	0.2042
BI	JAMES B. JR. & J.D. WILLIAMS	07-191-0010.0000	0.2822
BJ	DEBORAH J. & R.L. PARKER	07-191-0011.0001	0.1884
BK	MARGARET L. MOORE	07-191-0011.0000	0.2071
BL	JOHN E. & DEBORAH A. MOORE	07-191-0012.0000	0.428
BM	WILLIAM E. & ROSE L. HINDMAN	07-191-0012.0000	0.2822
BN	DEBBIE L. COOK, SR. & DEBBIE E. COOK	07-191-0014.0000	0.1808
BO	DEBBIE L. COOK, SR. & DEBBIE E. COOK	07-191-0015.0000	0.1881
BP	DEBBIE L. COOK, SR. & DEBBIE E. COOK	07-191-0016.0000	0.294
BQ	DEBBIE L. COOK, SR. & DEBBIE E. COOK	07-191-0018.0001	0.2180
BR	DOUGLAS W. & SUSAN E. WELLS	07-191-0017.0000	0.2421
BS	KATHLEEN M. KNOX & WOODROW L. KNOX	07-191-0018.0000	0.2420
BT	J. BRADLEY & STACEY ANN DECARLO	07-191-0018.0000	1.00
BV	ROBERT LEE JR. & KATHLEEN STEPHENS BOARD	08-113-0008.0002	4.72
BW	ROBERT LEE JR. & KATHLEEN STEPHENS BOARD	08-113-0008.0000	4.72

				REVISIONS:	
DATE: 03-14-2019 API NO: 47-089-00284 DRAWN BY: D. REED SCALE: N/A DRAWING NO: 2017-300 WELL LOCATION PLAN		OPERATOR'S: BRIAN DYTOK OHI WELL #: 3H COUNTY: OHIO STATE: WV		COMPANY: SWN DISTRICT: TRIADPHIA	