

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

API 47-051-02462 County MARSHALL District LIBERTY  
Quad LITTLETON, WV Pad Name YOCUM MSH - PAD-1 Field/Pool Name VICTORY FIELD WET  
Farm name SWN PRODUCTION COMPANY, LLC Well Number YOCUM MSH 10H  
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 4,398,193.65 Easting 535,667.03  
Landing Point of Curve Northing 4,398,152.08 Easting 535,675.87  
Bottom Hole Northing 4,395,135.54 Easting 538,902.82

Elevation (ft) 1052.6' 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

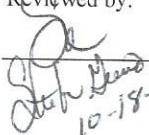
Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
SOBM

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Date permit issued 9/13/2022 Date drilling commenced 3/11/2023 Date drilling ceased 3/28/2023  
Date completion activities began 5/15/2023 Date completion activities ceased 6/17/2023  
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 437' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 894' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 874' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
  
10-18-2023

03/15/2024

API 47-051 - 02462 Farm name SWN PRODUCTION COMPANY, LLC Well number YOCUM MSH 10H

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	136'	NEW	J-55/94#		Y
Surface	17.5	13.375	534' ✓	NEW	J-55/54.5#		Y; 22 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,581'	NEW	J-55/36#		Y; 36 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	21,996' ✓	NEW	P-110 HP/20#		N
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	544	15.60	1.19	647.36	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	448 / 494	15.60 / 16.00	1.18 / 1.12	528.64 / 553.28	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,948	14.50	1.29	5,092.92	626'	24
Tubing							

Drillers TD (ft) 21,996' Loggers TD (ft) 21,996'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) 21,909'  
 Plug back procedure N/A

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Kick off depth (ft) 6,441' MD

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: 46 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 456 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 \_\_\_\_\_

03/15/2024









Well Name: Yocum MSH 10H 47051024620000

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	437.00	437.00	
Top of Salt Water	894.00	894.00	NA	NA	
Pittsburgh Coal	874.00	874.00	886.00	886.00	
Pottsville (ss)	982.00	982.00	1004.00	1004.00	
Raven Cliff (ss)	1505.00	1504.00	1620.00	1619.00	
Maxton (ss)	1856.00	1854.00	1994.00	1992.00	
Big Injun (ss)	2045.00	2043.00	2314.00	2311.00	
Berea (siltstone)	2676.00	2673.00	2703.00	2700.00	
Rhinstreet (shale)	6400.00	6382.00	6741.00	6712.00	
Cashaqua (shale)	6741.00	6712.00	6876.00	6826.00	
Middlesex (shale)	6876.00	6826.00	7028.00	6936.00	
Burket (shale)	7028.00	6936.00	7076.00	6964.00	
Tully (ls)	7076.00	6964.00	7120.00	6990.00	
Mahantango (shale)	7120.00	6990.00	7394.00	7102.00	
Marcellus (shale)	7394.00	7102.00	NA	NA	GAS

03/15/2024



**YOCUM MSH 10H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	4/27/2023	21,909	21,822	36
2	5/15/2023	21,791	21,613	36
3	5/15/2023	21,580	21,401	36
4	5/16/2023	21,368	21,190	36
5	5/16/2023	21,157	20,978	36
6	5/16/2023	20,945	20,767	36
7	5/17/2023	20,734	20,555	36
8	5/17/2023	20,522	20,344	36
9	5/17/2023	20,311	20,132	36
10	5/18/2023	20,099	19,921	36
11	5/18/2023	19,888	19,709	36
12	5/18/2023	19,676	19,498	36
13	5/19/2023	19,465	19,286	36
14	5/19/2023	19,253	19,075	36
15	5/19/2023	19,042	18,863	36
16	5/19/2023	18,830	18,652	36
17	5/20/2023	18,619	18,440	36
18	5/20/2023	18,407	18,229	36
19	5/20/2023	18,196	18,017	36
20	5/21/2023	17,984	17,806	36
21	5/21/2023	17,773	17,594	36
22	5/21/2023	17,561	17,383	36
23	5/22/2023	17,350	17,171	36
24	5/22/2023	17,138	16,960	36
25	5/23/2023	16,927	16,748	36
26	5/23/2023	16,715	16,537	36
27	5/23/2023	16,504	16,325	36
28	5/24/2023	16,292	16,114	36
29	5/24/2023	16,081	15,902	36
30	5/24/2023	15,869	15,691	36
31	5/25/2023	15,658	15,479	36
32	5/25/2023	15,446	15,268	36
33	5/26/2023	15,235	15,056	36
34	5/26/2023	15,023	14,845	36
35	5/26/2023	14,812	14,633	36
36	5/26/2023	14,600	14,422	36
37	5/27/2023	14,389	14,210	36
38	5/27/2023	14,177	13,999	36
39	5/27/2023	13,966	13,787	36
40	5/28/2023	13,754	13,576	36
41	5/28/2023	13,543	13,364	36
42	5/28/2023	13,331	13,153	36

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**YOCUM MSH 10H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	5/29/2023	13,120	12,941	36
44	5/29/2023	12,908	12,730	36
45	5/29/2023	12,697	12,518	36
46	5/30/2023	12,485	12,307	36
47	5/30/2023	12,274	12,095	36
48	5/30/2023	12,062	11,884	36
49	5/31/2023	11,851	11,672	36
50	5/31/2023	11,639	11,461	36
51	5/31/2023	11,428	11,249	36
52	5/31/2023	11,216	11,038	36
53	5/31/2023	11,005	10,826	36
54	6/1/2023	10,793	10,615	36
55	6/1/2023	10,582	10,403	36
56	6/1/2023	10,370	10,192	36
57	6/2/2023	10,159	9,980	36
58	6/2/2023	9,947	9,769	36
59	6/3/2023	9,736	9,557	36
60	6/3/2023	9,524	9,346	36
61	6/3/2023	9,313	9,134	36
62	6/4/2023	9,101	8,923	36
63	6/4/2023	8,890	8,711	36
64	6/5/2023	8,678	8,500	36
65	6/6/2023	8,467	8,288	36
66	6/6/2023	8,255	8,077	36
67	6/7/2023	8,044	7,865	36
68	6/7/2023	7,832	7,654	36
69	6/8/2023	7,621	7,442	36

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**YOCUM MSH 10H  
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 bbis	Amount of nitrogen/othe
1	5/15/2023	82.1	8,782	8,030	4,702	176,200	5,788	0
2	5/15/2023	83.7	9,346	7,683	6,334	305,420	9,375	0
3	5/15/2023	85	9,052	7,637	6,823	305,480	8,979	0
4	5/16/2023	90	9,413	8,107	5,756	303,520	8,885	0
5	5/16/2023	77.6	8,411	7,839	5,367	307,620	8,621	0
6	5/16/2023	74.7	8,888	7,426	6,415	301,090	8,535	0
7	5/17/2023	92.9	9,275	7,743	6,052	308,010	8,774	0
8	5/17/2023	98.4	9,530	7,167	6,427	307,740	8,748	0
9	5/17/2023	96.6	9,309	7,241	7,144	306,120	8,852	0
10	5/18/2023	94	9,752	7,813	6,038	312,060	8,981	0
11	5/18/2023	99.1	9,431	7,557	5,778	308,680	8,778	0
12	5/18/2023	99	9,994	7,227	7,067	311,500	8,703	0
13	5/19/2023	91	9,276	7,185	7,003	311,300	8,716	0
14	5/19/2023	98.6	9,397	7,420	6,170	290,330	8,475	0
15	5/19/2023	100	9,583	6,880	6,554	303,040	8,556	0
16	5/19/2023	100	9,554	6,763	6,645	306,190	8,627	0
17	5/20/2023	100	9,967	6,958	6,144	305,020	8,529	0
18	5/20/2023	97.5	9,314	7,431	6,509	308,120	8,741	0
19	5/20/2023	84.7	8,981	6,866	7,224	304,200	8,566	0
20	5/21/2023	92.3	9,354	7,192	6,490	314,870	8,474	0
21	5/21/2023	99.1	9,780	7,503	6,283	304,000	8,516	0
22	5/21/2023	73.6	8,044	7,013	5,774	311,560	9,393	0
23	5/22/2023	83	9,054	6,793	5,577	305,060	8,673	0
24	5/22/2023	97.7	9,335	7,315	4,780	261,180	10,325	0
25	5/23/2023	92.9	9,521	7,631	5,543	305,720	8,521	0
26	5/23/2023	87.4	8,965	7,426	5,387	303,500	10,336	0
27	5/23/2023	87.9	8,882	6,751	6,172	305,020	9,119	0
28	5/24/2023	88.8	9,431	7,258	5,500	306,820	8,451	0
29	5/24/2023	99.2	9,748	7,275	6,091	304,040	8,289	0
30	5/25/2023	97.8	9,713	6,799	5,971	309,320	8,588	0
31	5/25/2023	98.2	9,158	6,964	5,396	305,950	8,304	0
32	5/25/2023	98	9,328	6,720	5,680	311,240	8,450	0
33	5/26/2023	76.2	7,626	6,573	5,750	301,910	9,337	0
34	5/26/2023	100.3	9,115	5,720	6,220	308,600	8,481	0
35	5/26/2023	100	8,598	6,940	5,578	303,100	8,252	0
36	5/27/2023	99.8	9,061	7,144	5,423	308,060	8,462	0
37	5/27/2023	83.2	8,666	7,420	6,380	310,220	8,368	0
38	5/27/2023	98.7	9,277	7,079	5,439	315,920	8,412	0
39	5/28/2023	88.6	8,893	8,094	5,658	306,120	8,350	0
40	5/28/2023	99.9	9,100	7,385	5,890	309,600	8,204	0
41	5/28/2023	93.6	8,588	6,580	5,945	310,600	8,315	0
42	5/28/2023	93	8,334	6,502	5,353	309,670	8,251	0
43	5/29/2023	81	8,149	6,879	5,820	315,030	8,342	0
44	5/29/2023	88	8,235	6,270	5,600	307,090	8,169	0
45	5/29/2023	87.9	8,173	6,820	5,824	301,960	8,455	0
46	5/30/2023	86	8,087	6,520	5,200	302,970	8,085	0
47	5/30/2023	83.5	7,804	6,635	6,020	306,240	8,044	0
48	5/30/2023	94.5	8,361	6,876	6,224	306,630	8,071	0
49	5/31/2023	95.6	8,345	6,481	6,100	307,000	8,156	0
50	5/31/2023	82.5	7,778	6,675	6,530	307,080	8,036	0
51	5/31/2023	90	8,248	6,792	6,098	311,300	8,160	0
52	5/31/2023	99	8,240	5,414	6,478	307,500	8,132	0
53	6/1/2023	86.8	8,042	6,168	5,694	305,700	8,087	0

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Aug 21 2023

03/15/2024



YOCUM MSH 10H  
 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
54	6/1/2023	99.9	8,003	6,390	5,420	310,010	8,171	0
55	6/1/2023	99.2	8,125	5,941	5,980	304,000	8,153	0
56	6/2/2023	99.5	7,950	6,107	6,000	308,790	7,942	0
57	6/2/2023	99.9	7,931	6,150	5,930	322,630	7,052	0
58	6/2/2023	98.3	7,991	6,060	5,973	299,000	7,494	0
59	6/3/2023	99.9	8,201	5,565	5,000	305,020	7,466	0
60	6/3/2023	99.8	7,704	5,853	5,501	304,080	7,353	0
61	6/4/2023	99.9	7,667	5,055	5,615	302,330	7,329	0
62	6/4/2023	99.9	7,799	5,700	5,121	308,840	7,576	0
63	6/5/2023	98.8	7,716	6,110	5,080	319,090	7,378	0
64	6/5/2023	93.3	7,711	6,508	4,824	304,000	7,346	0
65	6/6/2023	99.9	7,606	5,090	5,600	301,580	7,467	0
66	6/6/2023	87.2	6,970	5,495	5,503	310,990	7,423	0
67	6/7/2023	81.8	6,754	5,731	6,124	312,620	7,351	0
68	6/7/2023	84.9	6,690	5,103	5,548	307,600	6,749	0
69	6/8/2023	75.8	6,672	4,809	4,847	308,830	6,732	0

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LATITUDE: 39°45' SURFACE HOLE (2000' SCALE) 103'

LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE)

544' BHL

588'

5993'

LONGITUDE: 80°32'30" BOTTOM HOLE (2000' SCALE)

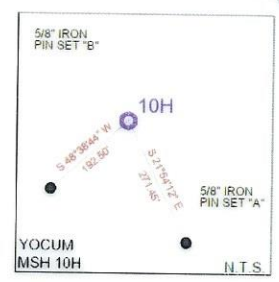
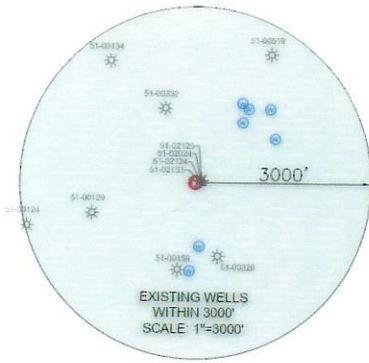
LONGITUDE: 80°35' SURFACE HOLE (2000' SCALE)



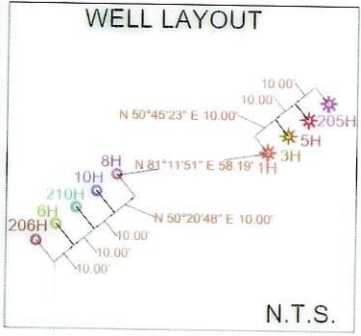
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

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 FROST STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

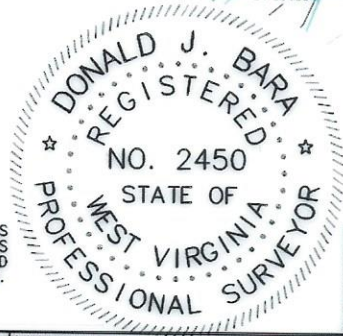
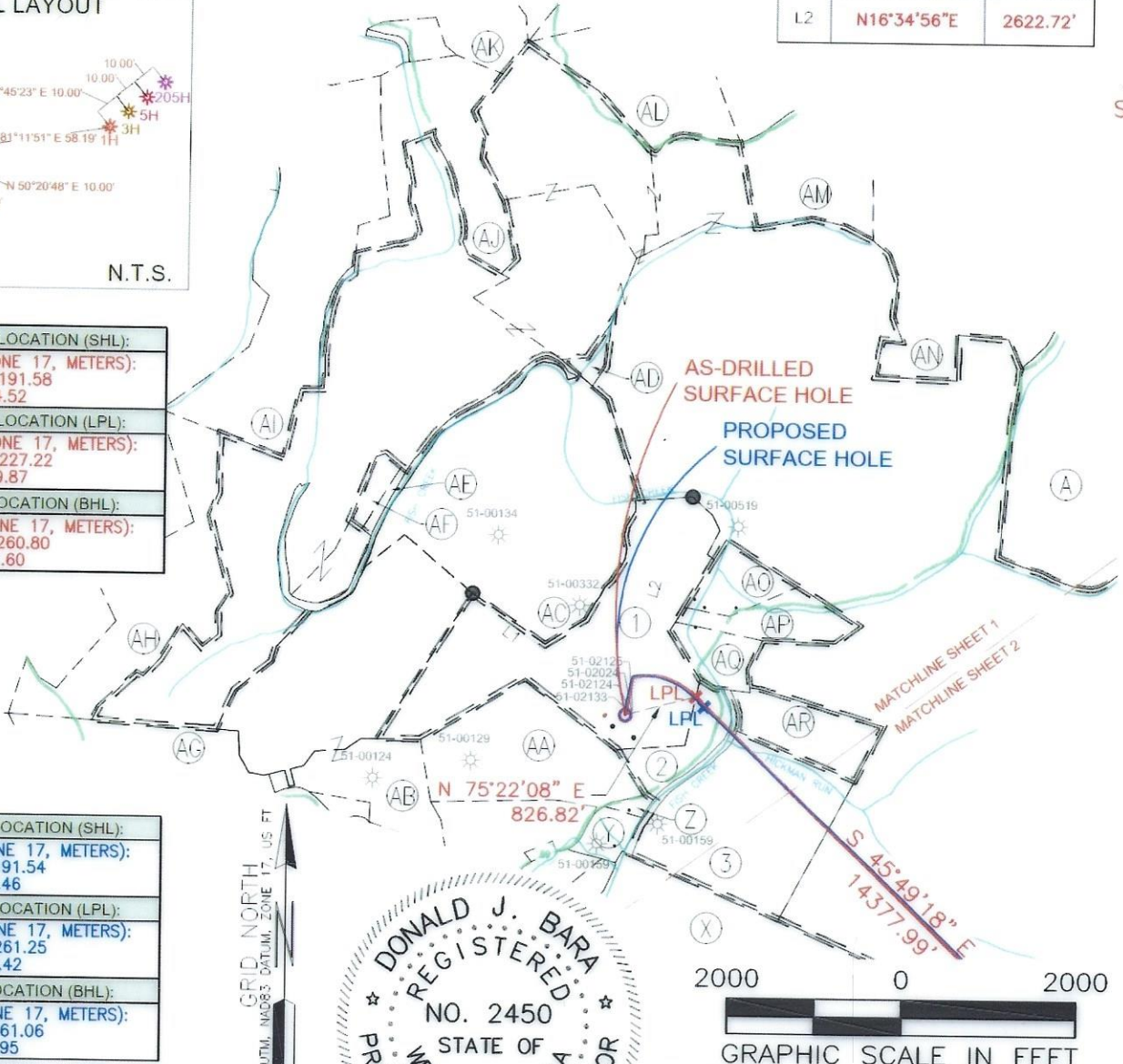


LINE	BEARING	DISTANCE
L1	N52°04'49\"W	2236.27'
L2	N16°34'56\"E	2622.72'



<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4398191.58
EASTING: 535664.52
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4398227.22
EASTING: 535939.87
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4395260.80
EASTING: 539101.60

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4398191.54
EASTING: 535664.46
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4398261.25
EASTING: 535909.42
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4395261.06
EASTING: 539101.95



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. 2450

COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #:	YOCUM MSH	10H
API WELL #:	STATE	COUNTY PERMIT
	47	051 02462



(+) 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)

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

WATERSHED: UPPER OHIO SOUTH  
DISTRICT: LIBERTY COUNTY: MARSHALL  
SURFACE OWNER: JOSEPH LEE AND MICHAEL D. YOCUM  
OIL & GAS ROYALTY OWNER: JOSEPH LEE AND MICHAEL D. YOCUM

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: 7,298' TVD 21,999' 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:

	EXISTING BOTTOM HOLE		ACCESS ROAD
	EXISTING / PRODUCING WELLHEAD		PUBLIC ROAD
	EXISTING LANDING POINT LOCATION		FLOOD PLAIN
	PROPOSED SURFACE HOLE / BOTTOM HOLE		LEASE BOUNDARY
	PROPOSED LANDING POINT LOCATION		AS-DRILLED PATH
			PROPOSED PATH

REVISIONS:

DATE:	05-03-2023
API NO:	47-051-02462
DRAWN BY:	Z. WOOD
SCALE:	1" = 2000'
DRAWING NO:	2017-154
WELL LOCATION PLAT	



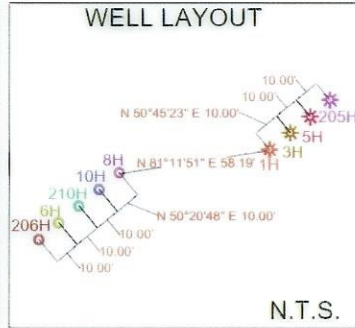
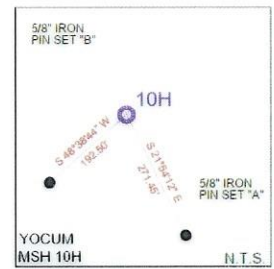
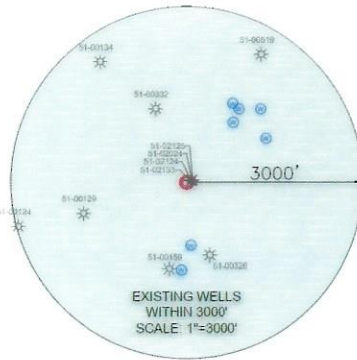


68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

**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 250 FEET OF PROPOSED WELL.

LATITUDE: 39°45' SURFACE HOLE (2000' SCALE) 103'  
LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE) 544' BHL

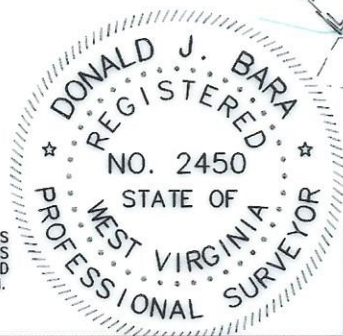


LINE	BEARING	DISTANCE
L1	N52°04'49\"W	2236.27'
L2	N16°34'56\"E	2622.72'

<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4398191.58 EASTING: 535664.52
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4398227.22 EASTING: 535939.87
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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. 2450



GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>YOCUM MSH OPERATOR'S WELL #: 10H</p> <p>API WELL #: 47 051 02462</p> <p>STATE COUNTY PERMIT</p>
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WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1052.5'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: LITTLETON, WV

SURFACE OWNER: JOSEPH LEE AND MICHAEL D. YOCUM ACREAGE: ±97.07

OIL & GAS ROYALTY OWNER: JOSEPH LEE AND MICHAEL D. YOCUM ACREAGE: ±97.07

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 03/15/2024

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,298' TVD 21,999' 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

<p><b>LEGEND:</b></p> <ul style="list-style-type: none"> <li>EXISTING BOTTOM HOLE</li> <li>EXISTING / PRODUCING WELLHEAD</li> <li>LPL* EXISTING LANDING POINT LOCATION</li> <li>PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>LPL* PROPOSED LANDING POINT LOCATION</li> <li>ACCESS ROAD</li> <li>PUBLIC ROAD</li> <li>FLOOD PLAN</li> <li>LEASE BOUNDARY</li> <li>ASDRILLED PATH</li> <li>PROPOSED PATH</li> </ul>	<p><b>REVISIONS:</b></p> <table border="1"> <tr> <td> </td> <td>DATE: 05-03-2023</td> </tr> <tr> <td> </td> <td>API NO: 47-051-02462</td> </tr> <tr> <td> </td> <td>DRAWN BY: Z. WOOD</td> </tr> <tr> <td> </td> <td>SCALE: 1" = 2000'</td> </tr> <tr> <td> </td> <td>DRAWING NO: 2017-154</td> </tr> <tr> <td> </td> <td>WELL LOCATION PLAT</td> </tr> </table>		DATE: 05-03-2023		API NO: 47-051-02462		DRAWN BY: Z. WOOD		SCALE: 1" = 2000'		DRAWING NO: 2017-154		WELL LOCATION PLAT
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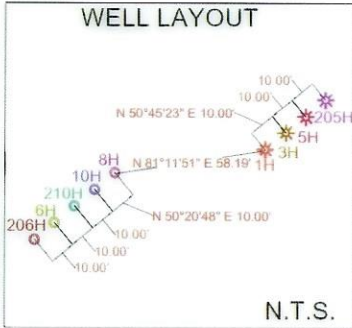
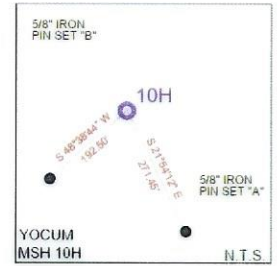
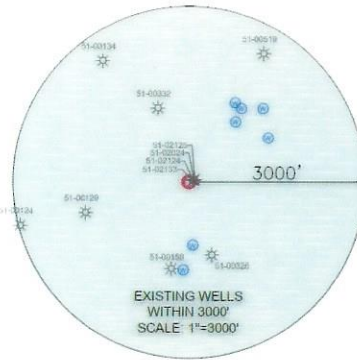
68011 Vineyard Road  
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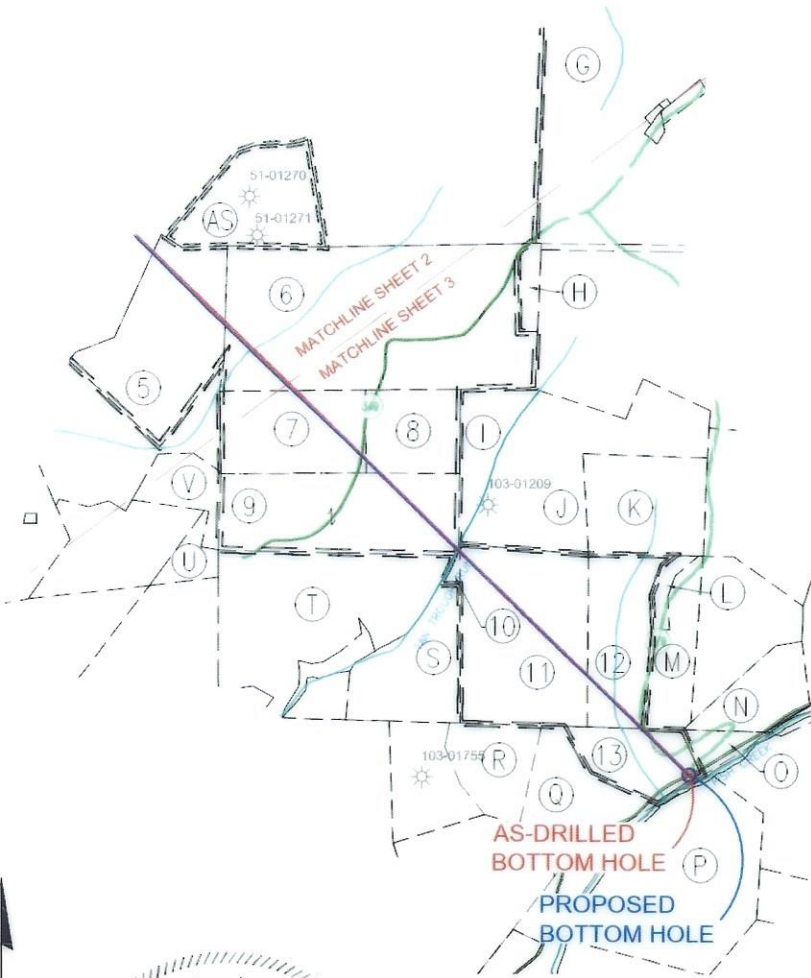
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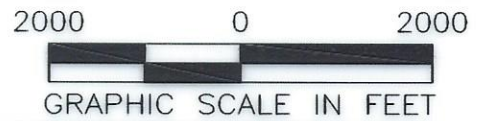
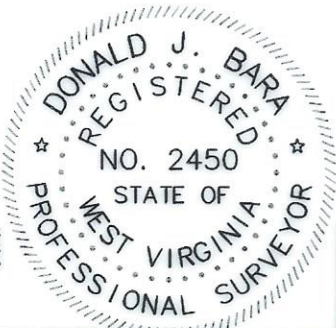


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GRID NORTH  
UTM, NAD83, DATUM, ZONE 17, US FT



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WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: UPPER OHIO SOUTH	ELEVATION: 1052.5'
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