

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

API 47-103-03422 County WETZEL District PROCTOR
Quad WILLEYVILLE, WV Pad Name SWN A PAD1 Field/Pool Name VICTORY FIELD WET
Farm name SWN PRODUCTION COMPANY, LLC Well Number SWN A WTZ 601H
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 4,392,593.33 Easting 530,896.81
Landing Point of Curve Northing 4,391,845.74 Easting 530,059.54
Bottom Hole Northing 4,393,717.04 Easting 527,902.04

Elevation (ft) 1343.1' 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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WV Department of Environmental Protection
Date permit issued 7/12/2021 Date drilling commenced 2/20/2022 Date drilling ceased 3/11/2022
Date completion activities began 4/14/2022 Date completion activities ceased 5/13/2022
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 307' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1342' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1249' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED OCT 04 2022
David L. Reynolds

Reviewed by: _____
10/14/2022

API 47-103-03422 Farm name SWN PRODUCTION COMPANY, LLC Well number SWN A WTZ 601H

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	386	NEW	J-55/54.5#		Y; 24 BBLS
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	3,072	NEW	J-55/36#		Y; 30 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	18,030'	NEW	HCP-110/20#		Y; 33 BBLS
Tubing							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	394	15.60	1.20	472.80	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	343 / 752	15.60 / 16.00	1.18 / 1.12	404.74 / 842.24	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,990	15.00	1.29	3,857.10	SURFACE	24
Tubing							

Drillers TD (ft) 18,030' Loggers TD (ft) 18,030'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 17,937'
 Plug back procedure N/A

Kick off depth (ft) 6,714'

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 _____ **RECEIVED**
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SURFACE: 5 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 41 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 323 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

AUG 04 2022

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ **WV Department of Environmental Protection**

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 103 - 03422 Farm name SWN PRODUCTION COMPANY, LLC Well number SWN A WTZ 601H

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	7,342'	TVD 8,494' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2915 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 22,480 mcfpd Oil 168 bpd NGL _____ bpd Water 864 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
	SEE	ATTACHMENT	3		

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANY
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Logging Company BAKER HUGHES
Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380

Cementing Company SCHLUMBERGER WELL SERVICES
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company SWN WELL SERVICES
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

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Texas Department of
Environmental Protection

Completed by Denise Grantham Telephone 832-796-6139
Signature Denise Grantham Title Regulatory Analyst Date 8/2/2022

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

10/14/2022

Hydraulic Fracturing Fluid Product Component Information Disclosure

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WV Department of
Environmental Protection

Job Start Date:	4/15/2022
Job End Date:	4/24/2022
State:	West Virginia
County:	Wetzel
API Number:	47-103-03422-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	SWN A WTZ 601
Latitude:	39.68261270
Longitude:	-80.63970283
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,244
Total Base Water Volume (gal):	15,873,442
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					
			Water	7732-18-5	100.00000	90.26345	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.31084	

			Water	7732-18-5	85.00000	0.31084	
			Water	7732-18-5	85.00000	0.31084	
HCL	SWN Well Services	Solvent					
				Listed Below			
Plexaid 655NM	SWN Well Services	Scale Inhibitor					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
Plexsick V996	SWN Well Services	Friction Reducer					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline Silica, quartz	14808-60-7	100.00000	9.31688	
			Hydrochloric Acid	7647-01-0	15.00000	0.04741	

			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00240	
			Sodium Erythorbate	6381-77-7	100.00000	0.00169	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00040	
			Ethylene glycol	107-21-1	40.00000	0.00019	
			Ethanol	64-17-5	2.50000	0.00013	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00005	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00005	
			Cinnamaldehyde	104-55-2	10.00000	0.00005	
			2-Butoxyethanol	111-76-2	5.00000	0.00002	
			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			1-Octanol	111-87-5	5.00000	0.00002	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00002	
			Triethyl phosphate	78-40-0	5.00000	0.00002	
			1-Decanol	112-30-1	5.00000	0.00002	

* 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)

**SWN A WTZ 601H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	3/30/2022	17,937	17,840	36
2	4/15/2022	17,806	17,628	36
3	4/15/2022	17,595	17,417	36
4	4/15/2022	17,384	17,206	36
5	4/16/2022	17,173	16,995	36
6	4/16/2022	16,962	16,784	36
7	4/16/2022	16,751	16,573	36
8	4/16/2022	16,540	16,362	36
9	4/16/2022	16,329	16,152	36
10	4/17/2022	16,118	15,941	36
11	4/17/2022	15,907	15,730	36
12	4/17/2022	15,696	15,519	36
13	4/17/2022	15,486	15,308	36
14	4/18/2022	15,275	15,097	36
15	4/18/2022	15,064	14,886	36
16	4/18/2022	14,853	14,675	36
17	4/19/2022	14,642	14,464	36
18	4/19/2022	14,431	14,253	36
19	4/19/2022	14,220	14,042	36
20	4/19/2022	14,009	13,831	36
21	4/19/2022	13,798	13,620	36
22	4/20/2022	13,587	13,409	36
23	4/20/2022	13,376	13,198	36
24	4/20/2022	13,165	12,987	36
25	4/20/2022	12,954	12,776	36
26	4/20/2022	12,743	12,565	36
27	4/20/2022	12,532	12,354	36
28	4/21/2022	12,321	12,143	36
29	4/21/2022	12,110	11,932	36
30	4/21/2022	11,899	11,721	36
31	4/21/2022	11,688	11,511	36
32	4/21/2022	11,477	11,300	36
33	4/22/2022	11,266	11,089	36
34	4/22/2022	11,055	10,878	30
35	4/22/2022	10,845	10,667	36
36	4/22/2022	10,634	10,456	36
37	4/22/2022	10,423	10,245	36
38	4/22/2022	10,212	10,034	36
39	4/23/2022	10,001	9,823	36
40	4/23/2022	9,790	9,612	36
41	4/23/2022	9,579	9,401	36
42	4/23/2022	9,368	9,190	36
43	4/23/2022	9,157	8,979	36

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**SWN A WTZ 601H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	4/24/2022	8,946	8,768	36
45	4/24/2022	8,735	8,557	36

SWN A WTZ 601H
ATTACHMENT 2

STIM REPORT

STAGE NUM	Stim Date	Ave Pump		Treatment	Max Breakdown	ISIP (PSI)	Amount of		Amount of nitrogen/othr
		Rate (BPM)					Proppant (lbs)	water bbls	
1	4/15/2022	77.8	8,449	8,449	8,065	4,586	175,760	6,446	0
2	4/15/2022	89	8,859	8,859	6,172	4,076	307,170	9,735	0
3	4/15/2022	93.2	8,916	8,916	5,585	3,958	308,030	8,976	0
4	4/15/2022	92.6	8,705	8,705	5,562	5,356	299,260	9,241	0
5	4/16/2022	93.7	8,884	8,884	5,682	4,013	303,180	10,512	0
6	4/16/2022	93.9	9,412	9,412	6,108	4,509	303,200	8,637	0
7	4/16/2022	86.6	9,186	9,186	5,411	4,325	299,280	8,433	0
8	4/16/2022	92.7	9,132	9,132	6,674	5,375	307,680	8,888	0
9	4/17/2022	91.5	9,072	9,072	5,750	4,652	301,750	8,717	0
10	4/17/2022	88.7	9,251	9,251	6,204	4,456	308,100	8,437	0
11	4/17/2022	88.5	9,026	9,026	6,449	5,546	299,680	8,213	0
12	4/17/2022	92.9	9,087	9,087	6,255	4,562	308,020	8,731	0
13	4/18/2022	92.2	9,038	9,038	6,215	4,758	304,640	8,620	0
14	4/18/2022	91.6	9,450	9,450	6,498	4,281	310,280	9,081	0
15	4/18/2022	87.1	8,399	8,399	6,025	5,028	301,980	8,283	0
16	4/18/2022	93.1	9,201	9,201	6,672	5,786	307,765	8,646	0
17	4/19/2022	93.1	9,021	9,021	6,255	4,544	308,560	8,391	0
18	4/19/2022	90.4	9,157	9,157	6,427	4,782	305,510	8,703	0
19	4/19/2022	84.1	8,358	8,358	5,882	4,944	308,560	8,262	0
20	4/19/2022	94.7	8,776	8,776	6,253	5,362	307,870	8,134	0
21	4/19/2022	87.9	8,185	8,185	6,601	5,177	311,580	8,461	0
22	4/20/2022	94.1	8,819	8,819	6,585	5,896	296,120	8,161	0
23	4/20/2022	90	8,220	8,220	6,301	4,852	307,840	8,566	0
24	4/20/2022	94.4	8,353	8,353	6,478	4,532	305,300	8,330	0
25	4/20/2022	93.9	8,300	8,300	6,516	5,006	305,300	8,213	0
26	4/20/2022	95.8	8,591	8,591	6,625	5,896	307,720	8,440	0
27	4/21/2022	94.2	8,422	8,422	6,452	6,387	304,920	8,295	0
28	4/21/2022	94.9	8,307	8,307	6,548	5,194	309,590	8,386	0
29	4/21/2022	94.6	8,288	8,288	6,552	4,817	302,630	8,353	0
30	4/21/2022	94.5	8,150	8,150	5,496	4,579	304,160	8,340	0
31	4/21/2022	93.8	8,238	8,238	6,103	5,226	304,160	8,217	0
32	4/21/2022	94.2	8,340	8,340	6,126	5,026	305,520	8,130	0
33	4/22/2022	94.6	8,289	8,289	6,202	5,116	305,210	8,177	0
34	4/22/2022	85.2	7,894	7,894	6,405	4,521	307,880	8,015	0
35	4/22/2022	94.8	7,995	7,995	6,343	4,579	309,951	8,351	0
36	4/22/2022	93.6	8,291	8,291	6,443	4,920	325,060	8,557	0
37	4/22/2022	95.3	7,996	7,996	5,902	5,290	309,160	8,109	0
38	4/23/2022	96.2	7,904	7,904	5,924	5,213	327,400	8,365	0
39	4/23/2022	94.8	7,527	7,527	6,321	4,566	303,540	8,028	0
40	4/23/2022	94.3	7,578	7,578	6,268	4,575	302,650	7,886	0
41	4/23/2022	94.4	7,889	7,889	6,109	4,963	307,402	8,737	0
42	4/23/2022	95.3	7,933	7,933	6,309	5,118	308,710	7,942	0
43	4/23/2022	95.6	7,906	7,906	6,250	4,709	308,620	8,079	0
44	4/24/2022	95.5	8,098	8,098	6,209	5,110	306,660	7,872	0
45	4/24/2022	94.6	7,863	7,863	4,986	4,536	309,400	8,080	0

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

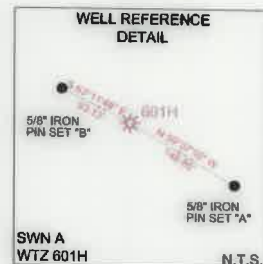
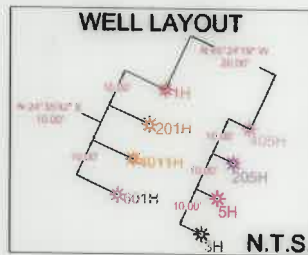
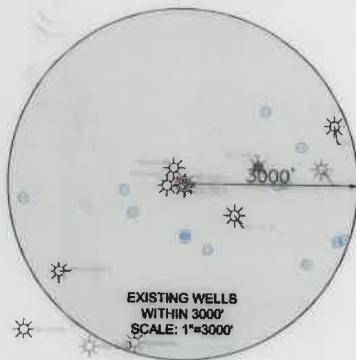
LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE)

4137'

2235'

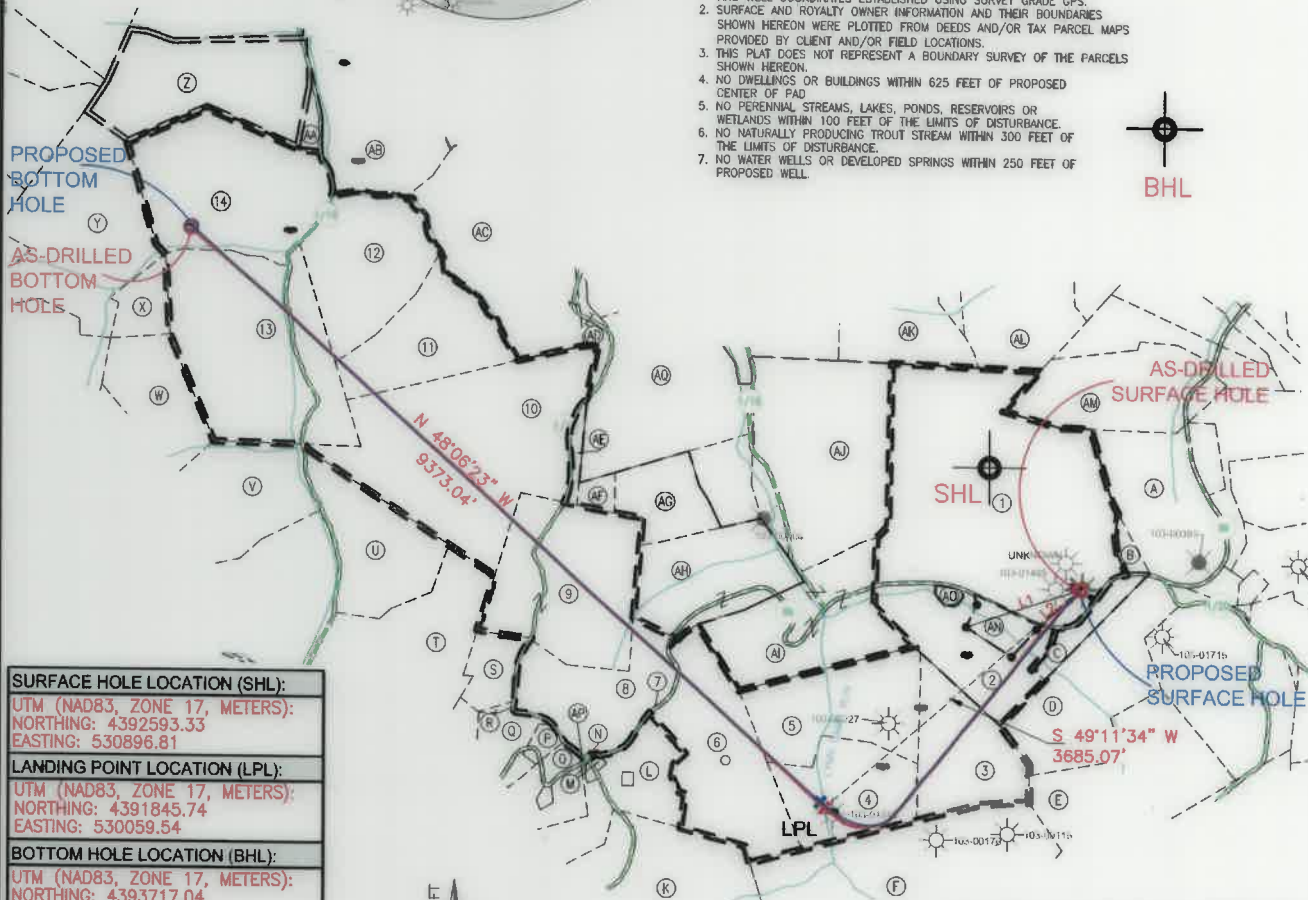


68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-8100



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 PLAN 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.

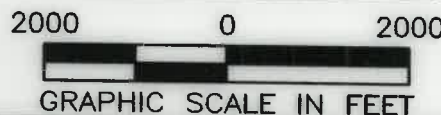


SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4392593.33
EASTING: 530896.81
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4391845.74
EASTING: 530059.54
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4393717.04
EASTING: 527902.04
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4392593.62
EASTING: 530897.05
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4391863.75
EASTING: 530045.21
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4393722.64
EASTING: 527906.46

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



LINE	BEARING	DISTANCE
L1	S71°22'37"W	1312.67'
L2	S46°58'06"W	644.53'



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.E. 18809



(+) 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)

COMPANY: SWN SWN^{R2-V+}_A
Production Company, LLC Production Company™

SWN A WTZ
OPERATOR'S WELL #: 601H
API WELL #: 47 103 03422
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH
DISTRICT: PROCTOR COUNTY: WETZEL
SURFACE OWNER: SWN PRODUCTION COMPANY, LLC
OIL & GAS ROYALTY OWNER: RODNEY CALVERT, ET AL

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: 7,369' 10/14/2022

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

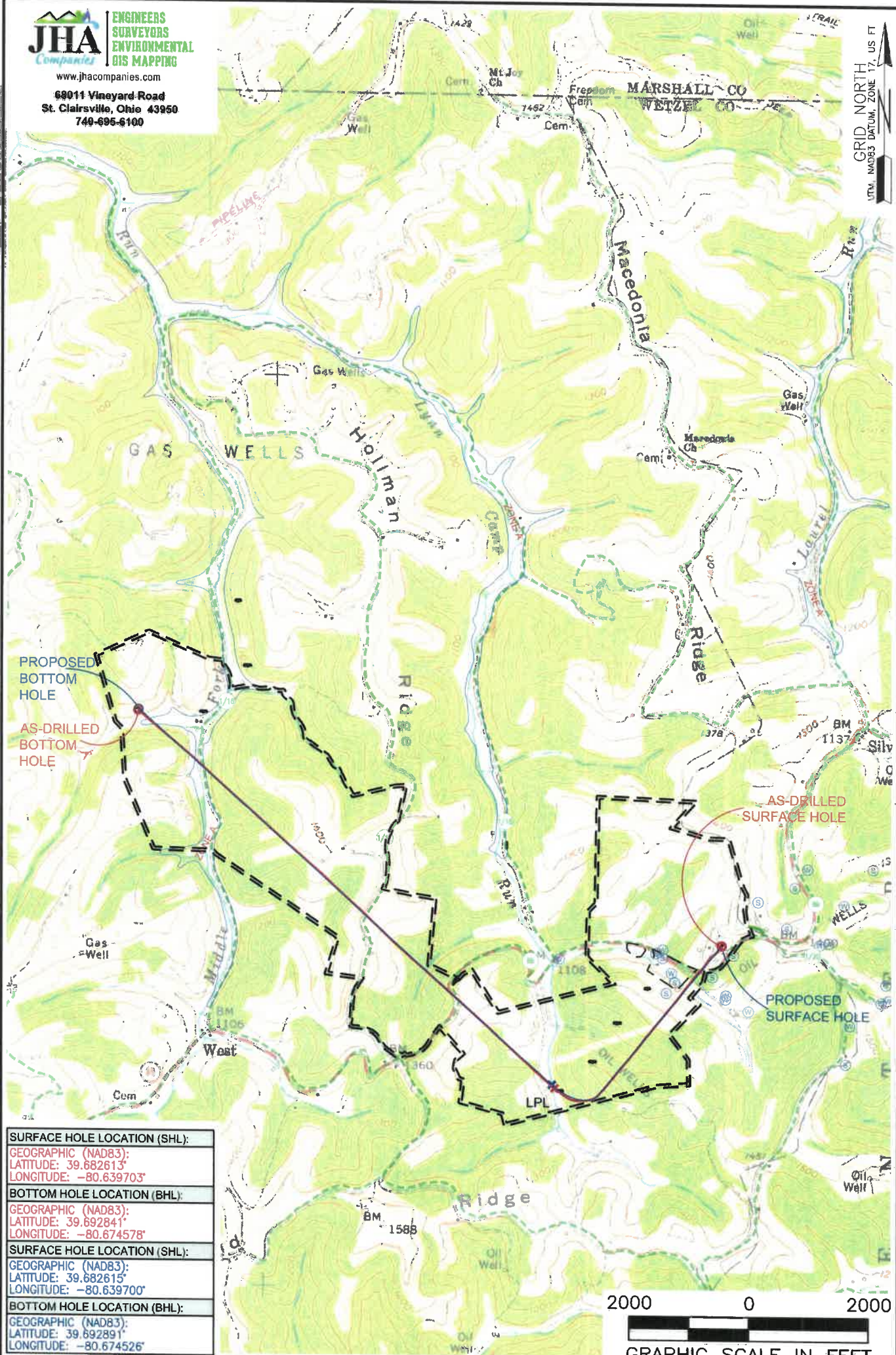
LEGEND:	REVISIONS:	DATE: 03-31-2022
○ EXISTING BOTTOM HOLE		API NO: 47-103-03422
☆ EXISTING / PRODUCING WELLHEAD		DRAWN BY: R. GRIMES
LPL* EXISTING LANDING POINT LOCATION		SCALE: 1" = 2000'
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		DRAWING NO: 2016-519
LPL* PROPOSED LANDING POINT LOCATION		WELL LOCATION PLAT
— ACCESS ROAD		
— PUBLIC ROAD		
— FLOOD PLAN		
— LEASE BOUNDARY		
— ASDRILLED PATH		
— PROPOSED PATH		

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (L) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY LLC (S) RODNEY CALVERT ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	CALVERT RODNEY A	12-10-29.3
3	DREYER JOSEPH C	12-15-8
4	HAESSLY LAND AND TIMBER LLC	12-15-7
5	HAESSLY LAND AND TIMBER LLC	12-15-6
6	HAESSLY LAND AND TIMBER LLC	12-15-5
7	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	PROCTOR CREEK ROAD (COUNTY HIGHWAY 89)
8	HAESSLY HARDWOOD LUMBER CO	12-15-4
9	HUGGINS JOSEPH DEAN	12-10-31
10	HAESSLY HARDWOOD LUMBER CO	12-10-23
11	HAESSLY LAND AND TIMBER LLC	12-10-20
12	HUGGINS MICHAEL A & PATRICK W	12-9-23
13	GODDARD WAYNE L	12-9-33
14	GODDARD WAYNE L	12-9-22

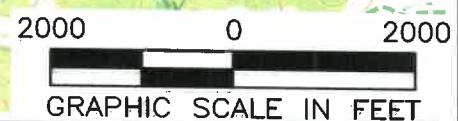
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	YOHO NORMA F	1-7-40
B	SWN PRODUCTION COMPANY	12-10-29.2
C	CALVERT RODNEY A	12-10-29.5
D	HUTCHISON MARGARETA	12-15-9
E	HAESSLY LAND AND TIMBER LLC	12-15-10
F	LEMASTERS DOLLY GEST	12-15-19
K	LEMASTERS H C HRS & MANKER	12-15-18
L	HAESSLY LAND AND TIMBER LLC	12-15-17
M	STILES MARILYN DIANE	12-15-16
N	RITCHEA JAMES L	12-15-4.1
AP	RITCHEA GARY A & ALICIA L	12-15-15
O	STILES MARILYN DIANE	12-15-14.2
P	URBANEK SCOTT J	12-15-3
Q	RITCHEA WILLIAM D	12-15-2
R	RITCHEA WILLIAM D	12-15-1.1
S	HUGGINS JOSEPH DEAN	12-15-1
T	RITCHEA WILLIAM D & SHIRLEY E	12-14-9
U	GODDARD WAYNE	12-9-46
V	WOODSTUFF JOYCE K	12-9-44
W	BLAKE VERIL JEROME	12-9-42
X	BLAKE VERIL JEROME	12-9-32
Y	BLAKE VERIL JEROME	12-9-21
Z	SHULUGA ANDREW D & ANDREA M	12-9-13
AA	SHULUGA ANDREW D & ANDREA M	12-9-14
AB	SHULUGA ANDREW D & ANDREA M	12-9-15
AC	RICHMOND CASSIDI PAIGE	12-10-13
AD	RICHMOND CASSIDI PAIGE	12-10-21
AQ	RITCHEA ROBERT C & JAMES L	12-10-22
AE	RITCHEA ROBERT C & JAMES L	12-10-24
AF	HUGGINS JOSEPH DEAN	12-10-25
AG	SWN PRODUCTION COMPANY LLC	12-10-26
AH	HAESSLY HARDWOOD LUMBER CO	12-10-32
AI	HAESSLY LAND AND TIMBER LLC	12-10-33
AJ	SWN PRODUCTION COMPANY LLC	12-10-28
AK	YOHO DARREN ETAL	12-10-16
AL	YOHO DARREN ETAL	12-10-18
AM	DURIG CORY & DAVID	1-7-2
AN	CALVERT RODNEY A	12-10-29.4
AO	CALVERT RODNEY A	12-10-29.1

REVISIONS:

COMPANY:	SWN Production Company LLC	SWN Production Company™	10/14/2022
OPERATOR'S	SWN A WTZ		DATE: 03-31-2022
WELL #:	601H		API NO: 47-103-03422
DISTRICT:	COUNTY:	STATE:	DRAWN BY: R. GRIMES
PROCTOR	WETZEL	WV	SCALE: N/A
			DRAWING NO: 2016-519
			WELL LOCATION PLAT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.682613°
LONGITUDE: -80.639703°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.692841°
LONGITUDE: -80.674578°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.682615°
LONGITUDE: -80.639700°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.692891°
LONGITUDE: -80.674526°



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:

●	EXISTING BOTTOM HOLE	—	ACCESS ROAD
⊙	EXISTING / PRODUCING WELLHEAD	—	FLOOD PLAN
LPL*	EXISTING LANDING POINT LOCATION	—	LEASE BOUNDARY
●	PROPOSED SURFACE HOLE / BOTTOM HOLE	—	ASDRILLED PATH
LPL*	PROPOSED LANDING POINT LOCATION	—	PROPOSED PATH

10/14/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SWN A WTZ	WELL # 601H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: WETZEL	CODE: 103	DISTRICT: PROCTOR
SURFACE OWNER: SWN PRODUCTION COMPANY, LLC	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV		
			API # 47-103-3422