

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

RECEIVED  
Office of Oil and Gas

NOV 03 2021  
WV Department of  
Environmental Protection

11/3/2021

API 47-009-00320 County BROOKE District BUFFALO  
Quad BETHANY WV & STEUBENVILLE EAST OH Pad Name JOHN GOOD JR BRK PAD Field/Pool Name PANHANDLE FIELD WET  
Farm name JOHN PRATHER GOOD JR IRREVOCABLE TRUST Well Number JOHN GOOD JR BRK 1H  
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 4,452,673.16 Easting 535,697.26  
Landing Point of Curve Northing 4,452,683.24 Easting 535,542.94  
Bottom Hole Northing 4,455,772.73 Easting 534,410.37

Elevation (ft) 1,153.6 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 9/3/2020 Date drilling commenced 4/22/2021 Date drilling ceased 5/2/2021  
Date completion activities began 7/3/2021 Date completion activities ceased 8/5/2021  
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 327 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 449 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 309 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:

DCN  
01/21/2022

WR-35  
Rev. 8/23/13

API 47-009 - 00320 Farm name JOHN PRATHER GOOD JR IRREVOCABLE TRUST Well number JOHN GOOD JR BRK 1H

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	383	NEW	J-55/54.50#	256.2	Y, 30 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	1,665	NEW	J-55/36#		Y, 25 BBLS
Intermediate 2	12.25	9.625					
Intermediate 3							
Production	8.75/8.50	5.5	17,153	NEW	P-110HP/20#		Y, 122 BBLS
Tubing		2.875	6,609	NEW	P-110/6.50		N
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	401	15.60	1.20	481.2	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	640	15.60	1.19	761.6	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,278	15.60	1.19	3,900.82	SURFACE	24
Tubing							

Drillers TD (ft) 17,153' Loggers TD (ft) 17,153'  
 Deepest formation penetrated \_\_\_\_\_ Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5,071' NOV 03 2021

Check all wireline logs run  caliper  density  deviated/directional  induction  sonic  
 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 \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

01/21/2022





# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/3/2021
Job End Date:	7/25/2021
State:	West Virginia
County:	Brooke
API Number:	47-009-00320-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	JOHN GOOD JR BRK 1
Latitude:	40.22372292
Longitude:	-80.58043004
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,838
Total Base Water Volume (gal):	17,196,624
Total Base Non Water Volume:	0



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## 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	88.16353	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.27761	

Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
Tolicide PS 50A	SWN Well Services	Biocide					
				Listed Below			
SWN FRW-11LC	SWN Well Services	Friction Reducer					
				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	11.48236	
		Hydrochloric Acid	7647-01-0	15.00000	0.03641	
		Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.02186	
		Tetrakis	55566-30-8	55.00000	0.00893	
		Glycerin	56-81-5	50.00000	0.00301	

			Ammonium Chloride	12125-02-9	2.00000	0.00175	
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00131	
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00131	
			Diethylenetriamine penta	15827-60-8	10.00000	0.00060	
			Acetic Acid	64-19-7	37.50000	0.00049	
			Methanol	67-56-1	80.00000	0.00030	
			Citric Acid	77-92-9	22.50000	0.00029	
			Acrylic acid terpolymer	397256-50-7	1.00000	0.00016	
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00004	
			Fatty acids	61790-12-3	5.02700	0.00002	
			Modified thiourea polymer	68527-49-1	4.74600	0.00002	
			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)

**JOHN GOOD JR. BRK 1H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	6/30/2021	17,105	17,010	36
2	7/3/2021	16,976	16,727	16
3	7/4/2021	16,694	16,445	16
4	7/4/2021	16,412	16,164	16
5	7/4/2021	16,130	15,882	16
6	7/5/2021	15,848	15,600	16
7	7/5/2021	15,566	15,318	16
8	7/6/2021	15,285	15,036	16
9	7/7/2021	15,003	14,754	16
10	7/7/2021	14,721	14,468	28
11	7/8/2021	14,439	14,190	16
12	7/8/2021	14,157	13,908	16
13	7/9/2021	13,875	13,626	16
14	7/9/2021	13,593	13,345	16
15	7/9/2021	13,311	13,063	16
16	7/11/2021	13,029	12,781	16
17	7/12/2021	12,747	12,499	16
18	7/12/2021	12,466	12,217	16
19	7/14/2021	12,184	11,935	16
20	7/14/2021	11,902	11,653	16
21	7/17/2021	11,620	11,371	16
22	7/18/2021	11,338	11,089	16
23	7/18/2021	11,056	10,807	16
24	7/19/2021	10,774	10,526	16
25	7/19/2021	10,492	10,244	16
26	7/19/2021	10,208	9,962	16
27	7/20/2021	9,928	9,680	16
28	7/20/2021	9,647	9,398	16
29	7/21/2021	9,365	9,120	16
30	7/21/2021	9,083	8,834	16
31	7/21/2021	8,801	8,552	16
32	7/22/2021	8,519	8,270	16
33	7/22/2021	8,237	7,988	16
34	7/23/2021	7,955	7,707	16
35	7/23/2021	7,673	7,425	16
36	7/24/2021	7,391	7,143	16
37	7/24/2021	7,109	6,850	28
38	7/24/2021	6,828	6,579	16
39	7/25/2021	6,546	6,297	16

01/21/2022



**JOHN GOOD JR. BRK 1H**  
**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	7/3/2021	75.86	8,063	8,281	3,789	177,760	5,410	0
2	7/4/2021	89.4	7,640	4,635	3,885	489,200	10,777	0
3	7/4/2021	90.3	8,039	5,542	4,269	490,640	11,039	0
4	7/4/2021	90	7,885	5,580	4,431	491,120	10,644	0
5	7/5/2021	90.6	7,518	4,600	4,102	490,260	10,688	0
6	7/5/2021	93.5	7,945	4,439	4,673	489,020	10,916	0
7	7/6/2021	89.3	7,865	5,778	4,366	492,300	10,746	0
8	7/6/2021	93.33	7,879	5,012	4,129	492,940	10,792	0
9	7/7/2021	93.3	7,416	4,920	4,261	491,200	10,713	0
10	7/8/2021	89.91	7,572	5,053	4,176	491,280	13,380	0
11	7/8/2021	64	7,437	5,151	4,135	470,120	10,293	0
12	7/9/2021	94	7,253	5,135	4,139	493,160	10,606	0
13	7/9/2021	91.89	7,275	5,177	4,273	492,300	10,640	0
14	7/9/2021	90.89	7,534	5,065	3,825	445,820	9,658	0
15	7/11/2021	89.9	6,808	5,077	4,236	489,180	10,531	0
16	7/12/2021	98.67	7,277	5,160	4,320	467,560	10,409	0
17	7/12/2021	86	6,376	5,045	4,210	472,090	10,466	0
18	7/14/2021	97.75	7,593	6,166	4,452	444,620	10,211	0
19	7/14/2021	95	6,851	5,231	4,334	493,710	10,573	0
20	7/17/2021	96.8	6,780	5,359	4,340	494,460	10,871	0
21	7/18/2021	92.6	6,478	5,218	3,789	495,780	10,288	0
22	7/18/2021	92.56	6,613	5,245	4,311	487,860	10,469	0
23	7/18/2021	83.7	6,232	5,328	4,346	489,180	10,517	0
24	7/19/2021	92.9	6,337	5,267	4,250	490,950	10,380	0
25	7/19/2021	90.22	6,618	5,399	4,270	474,690	10,146	0
26	7/20/2021	87	6,132	5,815	3,655	490,940	10,746	0
27	7/20/2021	92.4	6,387	5,377	4,221	498,180	10,474	0
28	7/20/2021	99.7	6,810	5,218	4,309	497,240	11,119	0
29	7/21/2021	91.4	7,463	5,380	4,250	492,220	10,446	0
30	7/21/2021	97	6,658	5,190	4,137	491,700	10,365	0
31	7/22/2021	92.42	6,490	5,255	4,119	477,220	11,074	0
32	7/22/2021	92.4	7,549	5,260	4,112	494,260	10,466	0
33	7/23/2021	95.6	6,561	5,587	4,218	493,660	10,294	0
34	7/23/2021	94.6	6,337	5,347	4,184	490,860	10,257	0
35	7/23/2021	95.7	6,442	5,341	4,452	489,530	10,121	0
36	7/24/2021	96.1	6,480	5,458	4,145	494,080	10,363	0
37	7/24/2021	83	7,488	6,260	4,054	495,080	12,953	0
38	7/25/2021	95.4	7,076	5,584	4,287	497,100	10,226	0
39	7/25/2021	91.5	7,331	5,750	4,001	490,840	10,430	0

01/21/2022



Well Name: John Good Jr BRK 1H

47009003200000

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	327.00	327.00	
Top of Salt Water	449.00	449.00	NA	NA	
Pittsburgh Coal	309.00	309.00	313.00	313.00	
Pottsville (ss)	439.00	439.00	788.00	788.00	
Raven Cliff (ss)	788.00	788.00	1437.00	1437.00	
Big Injun (ss)	1437.00	1437.00	5394.00	5329.00	
Rhinestreet (shale)	5394.00	5329.00	5667.00	5578.00	
Cashaqua (shale)	5667.00	5578.00	5729.00	5630.00	
Middlesex (shale)	5729.00	5630.00	5808.00	5691.00	
Burket (shale)	5808.00	5691.00	5830.00	5706.00	
Tully (ls)	5830.00	5706.00	5910.00	5760.00	
Mahantango (shale)	5910.00	5760.00	6119.00	5859.00	
Marcellus (shale)	6119.00	5859.00	NA	NA	GAS



01/21/2022

CLASS  
A  
RECEIVED  
JAN 21 2022  
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LATITUDE: 40°15'00" SURFACE HOLE (2000' SCALE)

10881'

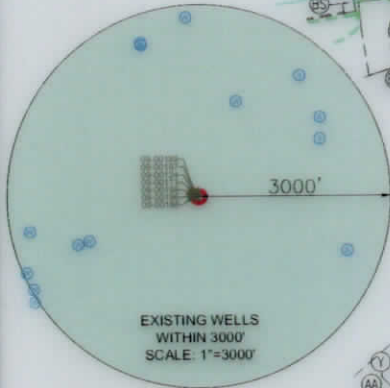
LATITUDE: 40°17'30" BOTTOM HOLE (2000' SCALE)

3395'



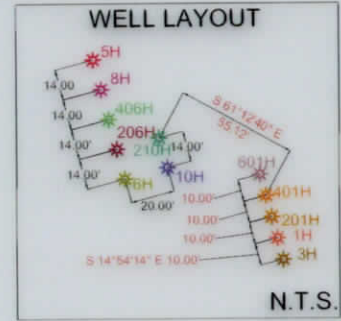
www.jhacompanies.com

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

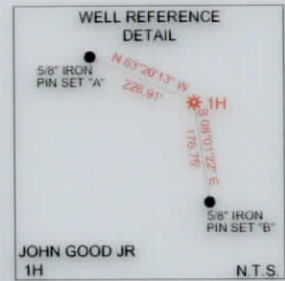


**NOTES ON SURVEY**

- COORDINATE SYSTEM IS UTM NAD 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

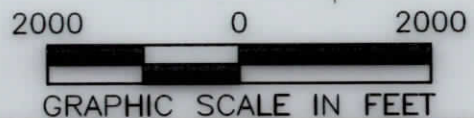


LINE	BEARING	DISTANCE
L1	N20°48'44"W	1703.17'
L2	S25°17'33"E	695.06'



<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4452673.16
EASTING: 535697.26
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4452683.24
EASTING: 535542.94
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4455772.73
EASTING: 534410.37
<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4452673.25
EASTING: 535697.20
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4452679.54
EASTING: 535541.37
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4455772.60
EASTING: 534409.75

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



LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)

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

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

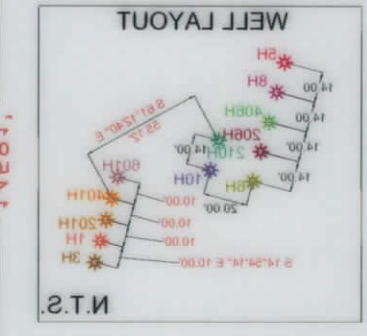
<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>JOHN GOOD JR BRK</p> <p>OPERATOR'S WELL #: 1H</p> <p>API WELL #: 47 STATE 009 COUNTY 0320 PERMIT</p>
	<p>WELL TYPE: OIL WASTE DISPOSAL PRODUCTION X DEEP GAS X LIQUID INJECTION STORAGE SHALLOW X</p> <p>WATERSHED: UPPER OHIO SOUTH</p> <p>DISTRICT: BUFFALO COUNTY: BROOKE</p> <p>SURFACE OWNER: JOHN PRATHER GOOD JR IRREVOCABLE TRUST</p> <p>OIL &amp; GAS ROYALTY OWNER: JOHN PRATHER GOOD JR IRREVOCABLE TRUST</p> <p>DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORM NEW FORMATION</p> <p>CONVERT PLUG &amp; ABANDON CLEAN OUT &amp; REPLUG OTHER CHANGE X (SPECIFY) AS-DRILLED</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,897' TVD 17,153' TMD</p>	<p>DATE: 09-29-2021</p> <p>API NO: 47-9-00320</p> <p>DRAWN BY: R. GRIMES</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 2020-0714</p> <p>WELL LOCATION PLAT</p>

LATITUDE: 40°17'30" BOTTOM HOLE (2000' SCALE)

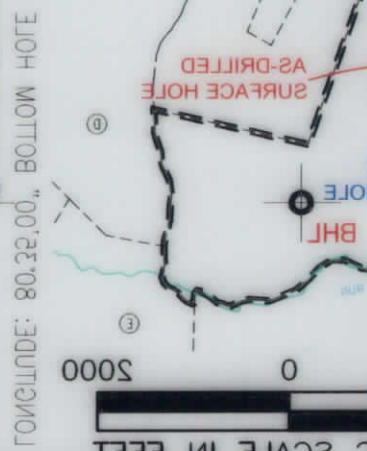
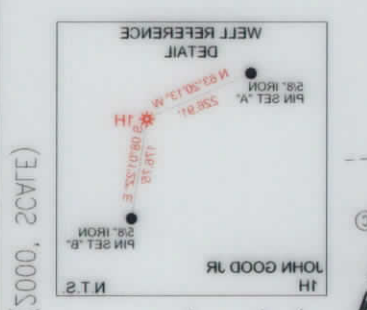
3355'

**NOTES ON SURVEY**

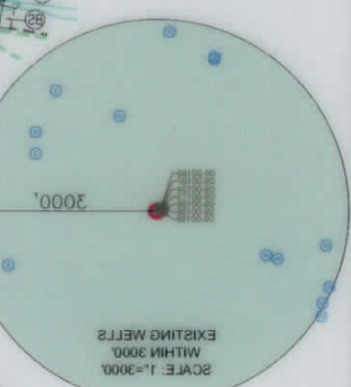
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3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO SWATHS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO PERMANENT STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
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.



LINE	BEARING	DISTANCE
L1	N50°48'44"W	1703.17'
L2	S52°17'33"E	689.06'



CONCLUDE: 80.32,00" BOTTOM HOLE (3000, 2000, 14281, 04230)



WELL TYPE	UTM (NAD83, ZONE 17, METERS)	EASTING	NORTHING
SURFACE HOLE LOCATION (SHL)	UTM (NAD83, ZONE 17, METERS): 445267.18	EASTING: 535897.26	NORTHING: 445267.18
LANDING POINT LOCATION (L.P.)	UTM (NAD83, ZONE 17, METERS): 445268.24	EASTING: 535897.94	NORTHING: 445268.24
BOTTOM HOLE LOCATION (BHL)	UTM (NAD83, ZONE 17, METERS): 445272.73	EASTING: 534410.73	NORTHING: 445272.73
SURFACE HOLE LOCATION (SHL)	UTM (NAD83, ZONE 17, METERS): 445267.25	EASTING: 535897.20	NORTHING: 445267.25
LANDING POINT LOCATION (L.P.)	UTM (NAD83, ZONE 17, METERS): 445267.54	EASTING: 535897.73	NORTHING: 445267.54
BOTTOM HOLE LOCATION (BHL)	UTM (NAD83, ZONE 17, METERS): 445272.60	EASTING: 534409.75	NORTHING: 445272.60

PRODUCTION COMPANY, LLC  
 SWN  
 JOHN GOOD JR BRK  
 0350 COUNTY PERMIT  
 47 STATE  
 009 COUNTY  
 0350 PERMIT

OPERATOR'S WELL #:  
 47  
 API WELL #:  
 009  
 STATE  
 0350  
 COUNTY  
 0350  
 PERMIT

WVDEP  
 OFFICE OF OIL & GAS  
 601 27TH STREET  
 CHARLESTON, WV 25034

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

WATERSHED: UPPER OHIO SOUTH  
 DISTRICT: BUFFALO  
 SURFACE OWNER: JOHN PRATHER GOOD JR IRREVOCABLE TRUST  
 OIL & GAS ROYALTY OWNER: JOHN PRATHER GOOD JR IRREVOCABLE TRUST  
 COUNTY: BROOKE

QUADRANGLE: BETHAM W & STEUBENVILLE EAST ON  
 ACCEAGE: ±68.57  
 ACCEAGE: ±68.57

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

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

ESTIMATED DEPTH: 2,807', TVD 17,153', TMD

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

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

REVISIONS:  
 DATE: 09-29-2021  
 API NO: 47-9-00350  
 DRAWN BY: R. GRIMES  
 SCALE: 1" = 2000'  
 DRAWING NO: 2020-0714  
 WELL LOCATION PLAT

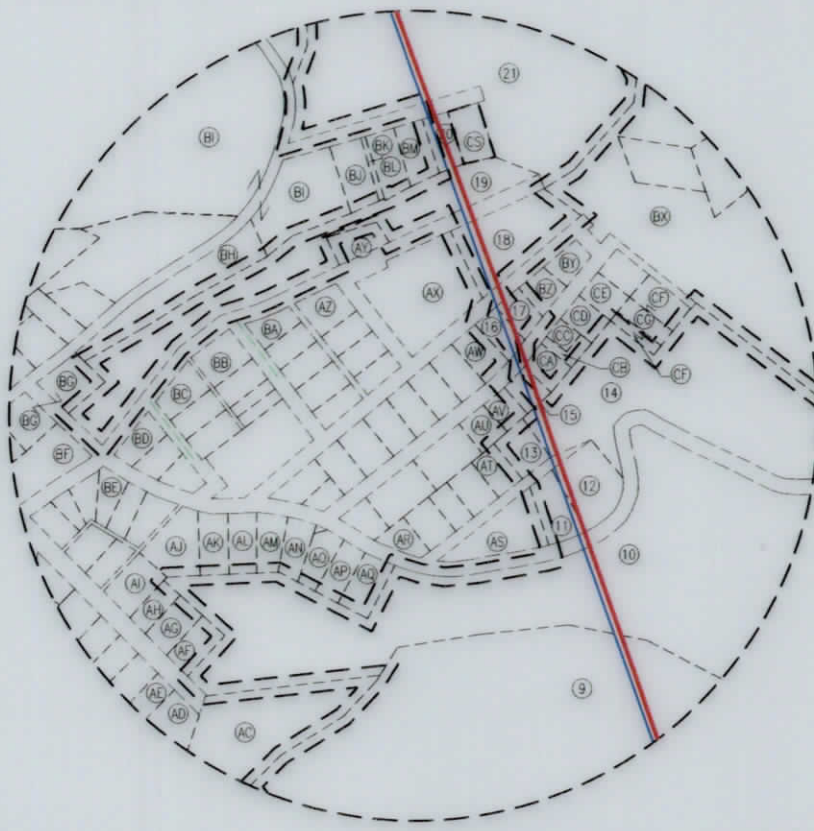
LEGEND:  
 EXISTING BOTTOM HOLE  
 EXISTING / PRODUCING WELLS  
 EXISTING LANDING POINT LOCATION  
 PROPOSED SURFACE HOLE / BOTTOM HOLE  
 PROPOSED LANDING POINT LOCATION  
 PROPOSED PATH  
 AS-DRILLED PATH  
 LEASE BOUNDARY  
 FLOOD PLAIN  
 PUBLIC ROAD  
 ACCESS ROAD



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, AND PREPARED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



01/21/2022

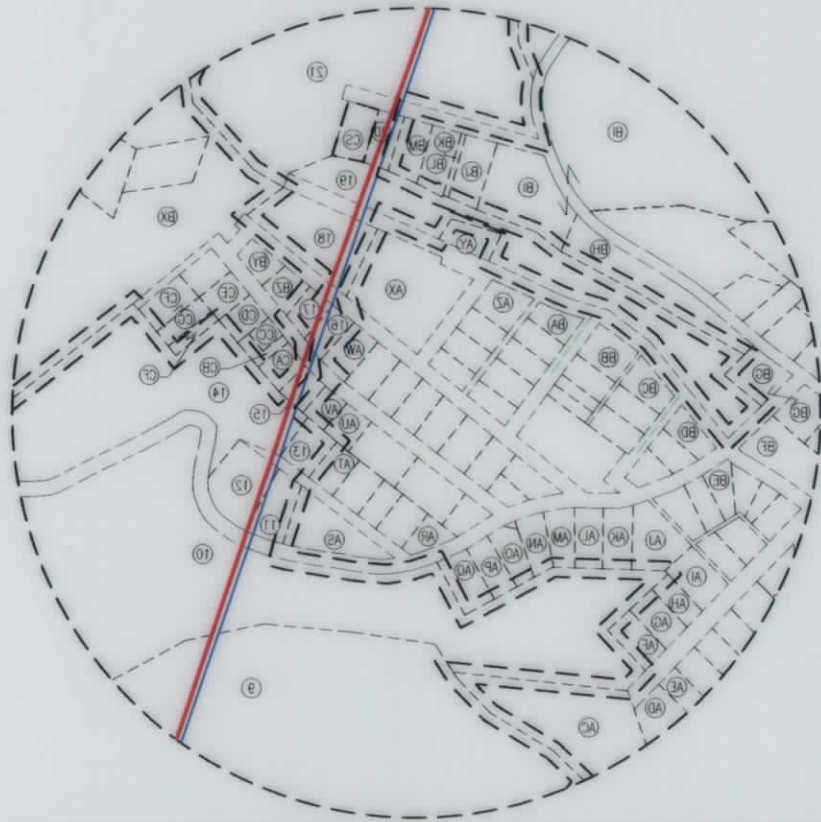


INSET I

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	JOHN PRATHER GOOD JR IRREVOCABLE TRUST (S)/(R)	03-B38-001.0
SURFACE OWNER		
2	STARVAGGI INDUSTRIES INC.	03-B37-053.0
3	PHYLLIS A. MARSH, TRUSTEE OF THE PHYLLIS A. MARSH LIVING TRUST DATED JANUARY 28, 2013	03-B32-118.0
4	JOHN P. GOOD III & KENNETH D. JOHNSTON (SURVIVOR)	03-B32-117.0
5	DAVID PIERCE	03-B32-125.0
6	EDWARD J. MARKER	03-B32-126.0
7	JAMIE L. & LESUE OHLER (SURVIVOR)	03-B32-099.1
8	MARK A. & GEORGIA FEDAK	03-B32-099.0
9	SAMUEL HERVEY HUBBARD	03-B32-096.0
10	ALBERT & LOTTIE STEWART	03-B32H-050.0
11	RONALD L. MCMASTERS JR	03-B32H-038.0
12	DAVID HAMILTON	03-B32H-039.0
13	SCOTT A. & FAITH L. LAW (SURVIVOR)	03-B32H-036.0
14	STARVAGGI INDUSTRIES INC.	03-B33-054.0
15	RICHARD P. & CLEO M. TAYLOR	03-B32H-026.0
16	RONALD R. & LUCILLE V. HIGGINS	03-B32H-016.0
17	CAROL J. JORDAN	03-B32H-017.0
18	CLYDE & CAROL JORDAN (SURVIVOR)	03-B32H-041.1
19	STARVAGGI INDUSTRIES INC.	03-B32G-063.0
20	BRENDA, JAMES, TERRY, & CHANCE STEWART	03-B32H-005.0
21	TERRY & CHARLOTTE STEWART	03-B32H-001.0
22	SYLVIA TAYLOR	03-B32-083.0
23	STARVAGGI INDUSTRIES INC.	03-B27-027.0

01/21/2022

REVISIONS:	<p>COMPANY: <b>SWN</b> Production Company, LLC</p> <p>OPERATOR'S: JOHN GOOD JR BRK</p> <p>WELL #: 1H</p>		<p>DATE: 09-29-2021</p> <p>API NO: 47-9-00320</p> <p>DRAWN BY: R. GRIMES</p> <p>SCALE: N/A</p> <p>DRAWING NO: 2020-0714</p> <p>WELL LOCATION PLAT</p>



INSET I



TRACT	SURFACE OWNER (S) \ SURFACE/ROYALTY OWNERS	TAX PARCEL
1	JOHN PRATHER GOOD JR IRREVOCABLE TRUST (S) (R)	03-838-001.0
2	STARVAGGI INDUSTRIES INC	03-837-023.0
3	PHYLLIS A MARSH, TRUSTEE OF THE PHYLLIS A MARSH LIVING TRUST DATED JANUARY 28, 2013	03-835-118.0
4	JOHN P. GOOD III & KENNETH D. JOHNSTON (SURVIVOR)	03-835-117.0
5	DAVID PIERCE	03-835-152.0
6	EDWARD I. MARKER	03-835-158.0
7	JAMIE L. & LESLIE OHLER (SURVIVOR)	03-835-089.1
8	MARK A. & GEORGIA FEDAK	03-835-089.0
9	SAMUEL HERVEY HUBBARD	03-835-089.0
10	ALBERT & LOTTIE STEWART	03-835H-050.0
11	RONALD L. MCMASTERS JR	03-835H-038.0
12	DAVID HAMILTON	03-835H-039.0
13	SCOTT A. & FAITH L. LAW (SURVIVOR)	03-835H-039.0
14	STARVAGGI INDUSTRIES INC	03-835-084.0
15	RICHARD P. & CLEM TAYLOR	03-835H-038.0
16	RONALD R. & LUCILLE V. HIGGINS	03-835H-016.0
17	CAROL J. JORDAN	03-835H-017.0
18	CLYDE & CAROL JORDAN (SURVIVOR)	03-835H-041.1
19	STARVAGGI INDUSTRIES INC	03-835G-083.0
20	BRINDA JAMES, TERRY, & CHARLICE STEWART	03-835H-082.0
21	TERRY & CHARLOTTE STEWART	03-835H-001.0
22	SYLVIA TAYLOR	03-835-083.0
23	STARVAGGI INDUSTRIES INC	03-837-057.0

				COMPANY:		REVISION: 01/21/2022	
DATE: 09-29-2021 API NO: 47-9-00350 DRAWN BY: R. GRIMES		JOHN GOOD JR BRK 1H		OPERATOR'S:			
SCALE: N/A DRAWING NO: 2020-0714 WELL LOCATION PLAT		STATE: WV		COUNTY: BROOKE		DISTRICT: BUFFALO	
PWD ID 3001182341 COMPLETION ID 2501188288							



ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MARY JANE JACKSON ETAL	03-B33-060.0
B	TODD H. & SHARON E. JACKSON (SURVIVOR)	03-B33-065.0
C	JOHN H. JR, RAY, KEVIN, & JODY PROELLOCHS	03-B38-007.0
D	MARK A. & GEORGIA M FEDAK (SURVIVOR)	03-B38-014.0
E	BETHANY COLLEGE	03-B38-031.0
F	PELUCHETTE FAMILY TRUST	03-B37-063.0
G	JOHN E. & SHERRILL J. RIPLEY (SURVIVOR) WILDA RIPLEY (L/E)	03-B37-062.0
H	MARLIN G. SR & JOY CRAWFORD (SURVIVOR)	03-B37-055.0
I	LAWRENCE PAUL SMITH SR	03-B37-054.0
J	WILLIAM E. & HAZEL E. JOHNSTON (SURVIVOR)	03-B37-053.1
K	USA MARIE BLACK	03-B37-052.0
L	RICHARD RODGERS, CHERI SHARP, EDWARD O'DYER, ETAL	03-B37-048.0
M	BONNIE LUKACENA, SHAYNE SCHUETZNER ETAL	03-B37-049.0
N	DWARKA NATH VEMURI D.B.A. AMERICAN HEART ASSOCIATES	03-B37-047.0
O	ROWDY T. GEORGETTI	03-B32-116.0
P	MATTHEW P. TOMSHACK	03-B32-099.4
Q	JERY B. & PAMELA S. MERCER (SURVIVOR)	03-B32-099.3
R	LLOYD T. & JUDITH KAY VAN HORN	03-B32-106.0
S	LLOYD T. & JUDITH KAY VAN HORN	03-B32-104.0
T	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS AND MARK & GEORGIA FEDAK	UNKNOWN
U	MARK & GEORGIA FEDAK (SURVIVOR)	03-B32-103.0
V	MARK & GEORGIA FEDAK	03-B32-102.0
W	MARK & GEORGIA FEDAK (SURVIVOR)	03-B32-100.0
X	MARK & GEORGIA FEDAK	03-B32-101.0
Y	MARK A. & GEORGIA M FEDAK	03-B32-199.0
Z	HARRY & JUDITH ICKES (SURVIVOR)	03-B32-133.0
AA	SAMUEL HERVEY HUBBARD	03-B32-096.0
AB	MICHAEL & DELA SEREVICZ	03-B32-090.0
AC	JAMES E. & ANNETTE M. BEST (SURVIVOR)	03-B32-201.0
AD	JOHN L. SR & LUCILLE M BEST	03-B32-095.0
AE	TERRY LYNN BEST	03-B32-094.0
AF	JADON LEWIS & MARY HELEN LISTON (SURVIVOR)	03-B32G-019.0
AG	SUAN DRA LANCASTER	03-B32G-020.0
AH	HEIDI NOLAN	03-B32G-021.0
AI	HEIDI NOLAN	03-B32G-022.0
AJ	MELVIN A. COLLEY JR & KATHY L. STEWART (SURVIVOR)	03-B32G-031.0
AK	DENNIS F. MCQUILLAN JR	03-B32G-032.0
AL	GARY PRATZ, CONNIE MORRIS, & KAREN MACKAY	03-B32G-033.0
AM	JONATHAN M. MCGOLDRICK	03-B32G-034.0
AN	HELEN V. TENNANT	03-B32G-035.0
AO	ALBERT & LOTTIE J. STEWART	03-B32G-037.0
AP	ALLEN L. & TERESA A. MORRIS (SURVIVOR)	03-B32H-046.0
AQ	MARY LAURA, & HELEN KRUGER	03-B32H-047.0
AR	ALBERT & LOTTIE STEWART	03-B32H-031.0
AS	LUCILLE MOZINGO	03-B32H-037.0
AT	SCOTT A. & FAITH L. LAW	03-B32H-035.0
AU	RICHARD P. & CLEO M TAYLOR	03-B32H-028.0
AV	RICHARD P. & CLEO M TAYLOR	03-B32H-027.0
AW	RONALD R. & LUCILLE V HIGGINS	03-B32H-015.0
AX	MCKINLEYVILLE VOLUNTEER FIRE DEPARTMENT	03-B32H-041.2
AY	MCKINLEYVILLE VOLUNTEER FIRE DEPARTMENT	03-B32H-048.0
AZ	BROKE COUNTY COMMISSION	03-B32G-081.0
BA	DONNA HIGGINS	03-B32G-060.0
BB	BROOKE COUNTY COMMISSION	03-B32G-054.0
BC	CHARLES E. JR & TARRIS L. MOORE (SURVIVOR)	03-B32G-051.0
BD	ROBERT L. JR & DONALD KERNOSKI ETAL	03-B32G-050.0
BE	JOHN B. & STARLET F. WILLIAMS	03-B32G-028.0
BF	STARVAGGI INDUSTRIES INC	03-B32G-063.0
BG	LARRY MICHAEL & DEBORAH RENEE REED	03-B32G-005.0
BH	VEMURI HOME & GARDENS LLC	03-B32G-001.0
BI	HERBERT MCGOWAN	03-B32G-067.0
BJ	BROOKE COUNTY COMMISSION	03-B32H-049.0
BK	CHARLES M. & ELIZABETH A. STEWART (SURVIVOR)	03-B32H-002.0
BL	CHARLES M. & ELIZABETH A. STEWART (SURVIVOR)	03-B32H-003.0
BM	ELSI M. BUCHANAN	03-B32H-004.0
BN	WAYNE & SYLVIA TAYOR (SURVIVOR)	03-B32G-066.0
BO	SYLVIA TAYLOR	03-B32-082.0
BP	SYLVIA TAYLOR	03-B32-084.0
BQ	SYLVIA TAYLOR & TERENCE SPERRINGER	03-B32-086.0
BR	SYLVIA TAYLOR	03-B32-085.0
BS	GLORIA PRAMESA	03-B32-049.0
BT	RICHARD E. HARRISON JR	03-B32-048.0
BU	MILDRED MANI MILES & ERIC BAUER	03-B27-021.0
BV	2018 MILDRED MANI REVOCABLE TRUST	03-B27-028.0
BW	MILDRE MANI & MILES BAUER	03-B27-026.0
BX	STARVAGGI INDUSTRIES INC	03-B32H-041.0
BY	CLYDE & CAROL JORDAN	03-B32H-018.0
BZ	CLYDE JORDAN II	03-B32H-018.1
CA	RICHARD P. & CLEO M. TAYLOR	03-B32H-025.0
CB	JAMIE JORDAN	03-B32H-025.1
CC	JAMIE JORDAN	03-B32H-024.0
CD	JAMIE ALAN JORDAN	03-B32H-023.0
CE	JAMIE ALAN JORDAN	03-B32H-022.0
CF	WILLIAM E. JORDAN	03-B32H-020.0
CG	JAMIE ALAN JORDAN	03-B32H-019.0
CH	BEAR TRAK PROPERTIES LLC	03-B33-010.2
CI	STARVAGGI INDUSTRIES INC	03-B33-054.0
CJ	SAMUEL HERVEY HUBBARD	03-B32-097.0
CK	JAMES S. & ADRIENE N ALLEN (SURVIVOR)	03-B32-098.0
CL	BRIAN BIRSALL	03-B32-120.0
CM	CARL LEWIS & DELCIE MAE JONES	03-B32-124.0
CN	BRADFORD L. JONES & SHARON E. SNYDER (SURVIVOR)	03-B32-123.0
CO	TRAVIS A. MILLER	03-B32-122.0
CP	CRAIG & COURTNEY HAVELKA	03-B32-121.0
CQ	JOHN PRATHER GOOD III & LAURIE THOMAS (SURVIVOR)	03-B32-119.0
CR	JOHN PRATHER GOOD JR IRREVOCABLE TRUST	03-B33-057.0
CS	RANDOLPH & TAMMY R. CLARK	03-B32H-006.0
CT	MARLIN G. SR & JOY CRAWFORD (SURVIVOR)	03-B37-053.0

01/21/2022

REVISIONS:				
COMPANY:				
OPERATOR'S	JOHN GOOD JR BRK		DATE: 09-29-2021	
WELL #:	1H		API NO: 47-9-00320	
DISTRICT:	COUNTY:	STATE:	DRAWN BY: R. GRIMES	
BUFFALO	BROOKE	WV	SCALE: N/A	
			DRAWING NO: 2020-0714	
			WELL LOCATION PLAT	

ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER
A	MARY JANE JACKSON ETAL
B	TODD H. & SHARON E. JACKSON (SURVIVOR)
C	JOHN H. JR., RAY KEVIN, & JODY PROBERT OCHS
D	MARK A. & GEORGIA M. FEDAK (SURVIVOR)
E	BETHANY COLLEGE
F	PELLUCCHETTI FAMILY TRUST
G	JOHN E. & SHERILL J. RIPLEY (SURVIVOR) WILDA RIPLEY (LIFE)
H	MARLIN G. SR. & JOY CRAWFORD (SURVIVOR)
I	LAWRENCE PAUL SMITH SR.
J	WILLIAM E. & HAZEL E. JOHNSTON (SURVIVOR)
K	LISA MARIE BLACK
L	RICHARD RODGERS, CHERI SHARP, EDWARD O'NEAL ETAL
M	BOBBIE LUKACENA, SHAYNE SCHUEZNER ETAL
N	DWARAKA NATH VEMURI, D. B. A. AMERICAN HEART ASSOCIATES
O	ROWDY T. GEORGETTI
P	MATTHEW P. TOMSHACK
Q	JERRY B. & PAMELA S. MERCER (SURVIVOR)
R	LLOYD T. & JUDITH KAY VAN HORN
S	LLOYD T. & JUDITH KAY VAN HORN
T	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS AND MARK & GEORGIA FEDAK
U	MARK & GEORGIA FEDAK (SURVIVOR)
V	MARK & GEORGIA FEDAK
W	MARK & GEORGIA FEDAK (SURVIVOR)
X	MARK & GEORGIA FEDAK
Y	MARK A. & GEORGIA M. FEDAK
Z	HARRY & JUDITH OCKES (SURVIVOR)
AA	SAMUEL HERVEY HUBBARD
AB	MICHAEL & DELA SEBRIC
AC	JAMIE E. & ANNETTE M. BEST (SURVIVOR)
AD	JOHN J. SR. & LUCILLE M. BEST
AE	TERRY LYNN BEST
AF	LADON LEWIS & MARY HELEN LISTON (SURVIVOR)
AG	SUAN DRA LANCASTER
AH	HEIDI NOLAN
AI	HEIDI NOLAN
AJ	MEVIN A. COLLEY JR. & KATHY J. STEWART (SURVIVOR)
AK	DENNIS T. MCGOWAN JR.
AL	GARY RYAN, CONNIE MORRIS, & KAREN MACKAY
AM	IONATHAN M. MCGOLDRICK
AN	HELEN V. TENNANT
AO	ALBERT & LOTTIE J. STEWART
AP	ALLEN J. & TERESA A. MORRIS (SURVIVOR)
AQ	MARY LAURA, & HELEN KRUGER
AR	ALBERT & LOTTIE STEWART
AS	LUCILLE MOISINGO
AT	SCOTT A. & FAITH L. LAW
AU	RICHARD P. & CLEO M. TAYLOR
AV	RICHARD P. & CLEO M. TAYLOR
AW	RONALD R. & LUCILLE V. HIGGINS
AX	MCKINLEYVILLE VOLUNTEER FIRE DEPARTMENT
AY	MCKINLEYVILLE VOLUNTEER FIRE DEPARTMENT
AZ	BROOK COUNTY COMMISSION
BA	DONNA HIGGINS
BB	BROOK COUNTY COMMISSION
BC	CHARLES E. JR. & TARRIS L. MOORE (SURVIVOR)
BD	ROBERT L. JR. & DONALD KERNOSKI ETAL
BE	JOHN R. & STARLET F. WILLIAMS
BF	STARVAGGI INDUSTRIES INC.
BG	LARRY MICHAEL & DEBORAH RENEE REED
BH	VEMURI HOME & GARDENS LLC
BI	HERBERT MCGOWAN
BJ	BROOK COUNTY COMMISSION
BK	CHARLES M. & ELIZABETH A. STEWART (SURVIVOR)
BL	CHARLES M. & ELIZABETH A. STEWART (SURVIVOR)
BM	ELSI M. BUCHANAN
BN	WAYNE & SYLVIA TAYLOR (SURVIVOR)
BO	SYLVIA TAYLOR
BP	SYLVIA TAYLOR
BQ	SYLVIA TAYLOR & TERENCE SPRINGER
BR	SYLVIA TAYLOR
BS	GLORIA PARAMESA
BT	RICHARD E. HARRISON JR.
BU	MILDRED MANI, MILLS & ERIC BAUER
BV	2018 MILDRED MANI REVOCABLE TRUST
BW	MILDRED MANI & MILLS BAUER
BX	STARVAGGI INDUSTRIES INC.
BY	CLYDE & CAROL JORDAN
BZ	CLYDE JORDAN II
CA	RICHARD P. & CLEO M. TAYLOR
CB	JAMIE JORDAN
CC	JAMIE JORDAN
CD	JAMIE ALAN JORDAN
CE	JAMIE ALAN JORDAN
CF	WILLIAM E. JORDAN
CG	JAMIE ALAN JORDAN
CH	BEAR TRAK PROPERTIES LLC
CI	STARVAGGI INDUSTRIES INC.
CJ	SAMUEL HERVEY HUBBARD
CK	JAMES S. & ANDRIENNE N. ALLEN (SURVIVOR)
CL	BRIAN BIRBALL
CM	CARL LEWIS & DELCIE MAE JONES
CN	BRADFORD L. JONES & SHARON E. SWYDER (SURVIVOR)
CO	TRAVIS A. MILLER
CP	CRAIG & COURTNEY HAVELKA
CQ	JOHN PATRICK GOOD III & LAURIE THOMAS (SURVIVOR)
CR	JOHN PATRICK GOOD JR. REVOCABLE TRUST
CS	RANDOLPH & TAMMY R. CLARK
CT	MARLIN G. SR. & JOY CRAWFORD (SURVIVOR)

REVISION 01/21/2022

COMPANY: **SWN Production Company, LLC**

OPERATOR'S: **JOHN GOOD JR BRK**

WELL #: **1H**

DISTRICT: **BUFFALO** COUNTY: **BROOKE** STATE: **WV**

WELL LOCATION PLAT: **DRAWING NO: 2020-0714** SCALE: **N/A** DRAWN BY: **R. GRIMES** API NO: **47-9-00350** DATE: **09-29-2021**

P&ID 2001182341 COMPLETION ID 2501182341