

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

API 47 - 051 - 02264 County MARSHALL District LIBERTY
Quad LITTLETON, WV Pad Name SHAWN HARLAN MSH PAD Field/Pool Name VICTORY FIELD WET
Farm name SCOTT L. HARLAN & SHAWN D. HARLAN Well Number SHAWN HARLAN MSH 8H
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 4,398,286.398 Easting 532,279.075
Landing Point of Curve Northing 4,398,312.041 Easting 532,450.187
Bottom Hole Northing 4,395,996.309 Easting 534,926.134

Elevation (ft) 1,391.3' 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 9/17/2019 Date drilling commenced 12/24/2019 Date drilling ceased 1/14/2020
Date completion activities began 5/03/2020 Date completion activities ceased 7/03/2020
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

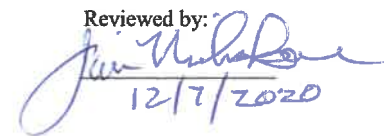
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Freshwater depth(s) ft 489' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 750' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1116' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

12/7/2020

API 47-051 - 02264 Farm name SCOTT L. HARLAN & SHAWN D. HARLAN Well number SHAWN HARLAN MSH 8H

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	592'	NEW	J-55/54.50#		Y; 38 BBLs
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2,734'	NEW	J-55/36#		Y; 59 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	19,050'	NEW	HCP-110/20#		Y
Tubing		2.375		NEW	P-110/6.5#		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	610	15.60	1.19	725.9	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	1,110	16.00	1.11	1,232.1	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,396	15.60	1.18	4,007.28	SURFACE	24
Tubing							

Drillers TD (ft) 19,050' Loggers TD (ft) 19,050'

Deepest formation penetrated MARCELLUS Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6,327

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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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:	5/4/2020
Job End Date:	6/17/2020
State:	West Virginia
County:	Marshall
API Number:	47-051-02264-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	SHAWN HARLAN MSH 8
Latitude:	39.73385647
Longitude:	-80.62330531
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,344
Total Base Water Volume (gal):	18,901,388
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
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			

Sand	SWN Well Services	Proppant					
				Listed Below			
SWN FRW-11LC	SWN Well Services	Friction Reducer					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control					
				Listed Below			
Base Water	Operator	Base Fluid					
				Listed Below			
Tolicide PS 50A	SWN Well Services	Biocide					
				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	90.39525	Density = 8.345
			Crystalline Silica, quartz	14808-60-7	100.00000	9.01361	
			Water	7732-18-5	85.00000	0.46935	
			Hydrochloric Acid	7647-01-0	15.00000	0.06548	
			Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.02971	
			Tetrakis	55566-30-8	55.00000	0.01477	
			Glycerin	56-81-5	50.00000	0.00297	
			Ammonium Chloride	12125-02-9	2.00000	0.00238	

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			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00178	
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00178	
			Acetic Acid	64-19-7	37.50000	0.00087	
			Diethylenetriamine penta	15827-60-8	10.00000	0.00059	
			Methanol	67-56-1	80.00000	0.00054	
			Citric Acid	77-92-9	22.50000	0.00052	
			Acrylic acid terpolymer	397256-50-7	1.00000	0.00027	
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00006	
			Fatty acids	61790-12-3	5.02700	0.00003	
			Modified thiourea polymer	68527-49-1	4.74600	0.00003	
			Potassium acetate	127-08-2	0.02200	0.00000	
			Formaldehyde	50-00-0	0.00400	0.00000	

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

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

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

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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**SHAWN HARLAN MSH 8H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	4/11/2020	19,006	18,822	36
2	5/4/2020	18,791	18,611	36
3	5/4/2020	18,577	18,397	36
4	5/7/2020	18,364	18,184	36
5	5/12/2020	18,150	17,968	36
6	5/14/2020	17,939	17,757	36
7	5/15/2020	17,718	17,543	36
8	5/16/2020	17,505	17,329	36
9	5/17/2020	17,296	17,116	36
10	5/19/2020	17,082	16,902	36
11	5/19/2020	16,869	16,694	36
12	5/20/2020	16,655	16,475	36
13	5/20/2020	16,437	16,261	36
14	5/22/2020	16,228	16,048	36
15	5/26/2020	16,014	15,837	36
16	5/27/2020	15,801	15,621	36
17	5/28/2020	15,592	15,407	36
18	5/28/2020	15,373	15,193	36
19	5/29/2020	15,160	14,984	36
20	5/30/2020	14,948	14,764	36
21	5/31/2020	14,733	14,553	36
22	5/31/2020	14,519	14,339	36
23	6/1/2020	14,305	14,125	36
24	6/1/2020	14,092	13,908	36
25	6/2/2020	13,881	13,698	36
26	6/2/2020	13,665	13,485	36
27	6/3/2020	13,451	13,271	36
28	6/3/2020	13,237	13,057	36
29	6/4/2020	13,024	12,844	36
30	6/4/2020	12,810	12,627	36
31	6/5/2020	12,600	12,417	36
32	6/5/2020	12,383	12,203	36
33	6/6/2020	12,169	11,994	36
34	6/6/2020	11,956	11,776	36
35	6/7/2020	11,742	11,562	36
36	6/7/2020	11,529	11,350	36
37	6/7/2020	11,315	11,135	36
38	6/8/2020	11,098	10,921	36
39	6/8/2020	10,888	10,708	36
40	6/9/2020	10,674	10,496	36
41	6/9/2020	10,461	10,281	36
42	6/10/2020	10,247	10,067	36

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43	6/11/2020	10,033	9,853	36
44	6/12/2020	9,820	9,640	36
45	6/13/2020	9,606	9,426	36
46	6/13/2020	9,393	9,213	36
47	6/14/2020	9,179	8,999	36
48	6/14/2020	8,965	8,785	36
49	6/15/2020	8,752	8,572	36
50	6/16/2020	8,538	8,358	36
51	6/16/2020	8,325	8,150	36
52	6/16/2020	8,111	7,931	36
53	6/17/2020	7,895	7,717	36

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**SHAWN HARLAN MSH 8H
ATTACHMENT 2
STIM REPORT**

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/other
1	5/4/2020	84	8,740	6,980	4,276	192,090	6,019	0
2	5/5/2020	88	9,120	6,212	4,124	306,780	8,987	0
3	5/5/2020	80	8,982	5,422	4,167	303,830	8,645	0
4	5/11/2020	88	9,089	6,373	5,105	303,570	9,034	0
5	5/14/2020	94	9,109	6,107	5,142	307,880	8,521	0
6	5/14/2020	97	9,351	6,348	4,792	302,520	8,818	0
7	5/16/2020	100	9,183	6,427	4,867	306,680	8,634	0
8	5/17/2020	89	8,618	6,573	5,462	0	8,244	0
9	5/18/2020	94	9,132	6,467	5,240	309,700	8,673	0
10	5/19/2020	96	9,374	6,182	5,025	306,980	8,355	0
11	5/19/2020	99	9,114	6,285	5,511	314,970	9,004	0
12	5/20/2020	95	9,030	6,035	4,222	306,020	8,544	0
13	5/20/2020	93	9,144	6,249	5,317	311,960	11,501	0
14	5/26/2020	93	8,902	6,481	5,267	299,600	8,321	0
15	5/27/2020	81	8,694	6,219	5,266	284,510	9,606	0
16	5/28/2020	84	9,029	6,317	4,567	307,820	8,303	0
17	5/28/2020	87	9,103	6,020	5,092	236,480	7,386	0
18	5/29/2020	86	8,777	6,218	4,748	277,730	9,616	0
19	5/30/2020	85	8,756	6,085	4,605	245,620	7,284	0
20	5/31/2020	89	8,829	6,104	4,191	311,170	8,782	0
21	5/31/2020	87	8,744	5,900	4,375	308,940	8,550	0
22	6/1/2020	84	9,023	5,718	6,088	154,530	5,925	0
23	6/1/2020	89	8,809	5,998	4,780	307,630	8,254	0
24	6/1/2020	95	8,746	5,223	4,839	310,070	8,447	0
25	6/2/2020	89	8,464	5,645	5,035	314,200	8,366	0
26	6/3/2020	96	8,753	5,745	4,715	309,390	8,519	0
27	6/3/2020	90	8,548	5,580	4,725	270,830	8,330	0
28	6/4/2020	93	8,726	6,169	4,630	307,620	9,192	0
29	6/4/2020	91	8,680	5,795	4,968	313,570	8,675	0
30	6/5/2020	80	8,773	5,809	4,598	311,770	12,127	0
31	6/5/2020	89	8,458	5,864	4,460	308,100	8,630	0
32	6/6/2020	96	8,722	6,006	4,459	310,790	8,774	0
33	6/6/2020	87	8,465	6,286	5,098	264,210	7,840	0
34	6/6/2020	91	8,788	6,201	4,315	310,030	8,028	0
35	6/7/2020	93	8,151	6,039	5,002	298,290	7,935	0
36	6/7/2020	91	8,830	5,913	4,322	312,330	8,826	0
37	6/8/2020	83	8,581	6,090	4,536	303,720	8,292	0
38	6/8/2020	97	8,130	5,650	4,623	309,130	8,265	0
39	6/9/2020	99	8,493	6,780	4,490	299,490	8,424	0
40	6/9/2020	99	8,178	6,430	4,542	310,130	8,775	0
41	6/10/2020	97	8,229	6,417	4,960	318,840	8,443	0
42	6/10/2020	90	8,845	6,297	3,920	307,450	10,465	0
43	6/12/2020	93	7,400	6,116	4,657	312,460	8,287	0
44	6/13/2020	97	7,967	6,917	4,563	312,840	8,429	0
45	6/13/2020	98	7,709	6,754	4,532	306,890	8,507	0
46	6/14/2020	100	7,866	6,790	4,980	0	8,284	0
47	6/14/2020	100	7,743	6,124	4,604	311,740	8,272	0
48	6/15/2020	99	7,929	7,142	4,545	287,950	7,653	0
49	6/15/2020	100	7,801	6,991	4,710	307,750	8,143	0
50	6/16/2020	100	8,014	6,446	4,901	243,890	7,449	0
51	6/16/2020	99	7,753	6,800	4,769	318,400	8,499	0
52	6/17/2020	98	7,883	6,585	4,362	306,410	8,268	0
53	6/17/2020	100	7,558	6,651	4,651	308,970	8,914	0

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Well Name: Shawn Harlan MSH 8H 47051022640000

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	489.00	489.00	489.00	489.00	
Top of Salt Water	750.00	750.00	NA	NA	
Pittsburgh Coal	1116.00	1116.00	1118.00	1118.00	
Pottsville (ss)	1211.00	1211.00	1550.00	1549.00	
Raven Cliff (ss)	1550.00	1549.00	1823.00	1821.00	
Maxton (ss)	1995.00	1993.00	2219.00	2216.00	
Big Injun (ss)	2279.00	2277.00	2517.00	2515.00	
Berea (siltstone)	2868.00	2866.00	2895.00	2892.00	
Rhinestreet (shale)	6573.00	6492.00	6896.00	6798.00	
Cashaqua (shale)	6896.00	6798.00	7039.00	6919.00	
Middlesex (shale)	7039.00	6919.00	7114.00	6976.00	
Burket (shale)	7167.00	7013.00	7207.00	7039.00	
Tully (ls)	7207.00	7039.00	7242.00	7060.00	
Mahantango (shale)	7242.00	7060.00	7494.00	7164.00	
Marcellus (shale)	7494.00	7164.00	NA	NA	GAS

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Latitude: 39°45'00"

SURFACE HOLE 11239'

Latitude: 39°45'00" BOTTOM HOLE | 2588'

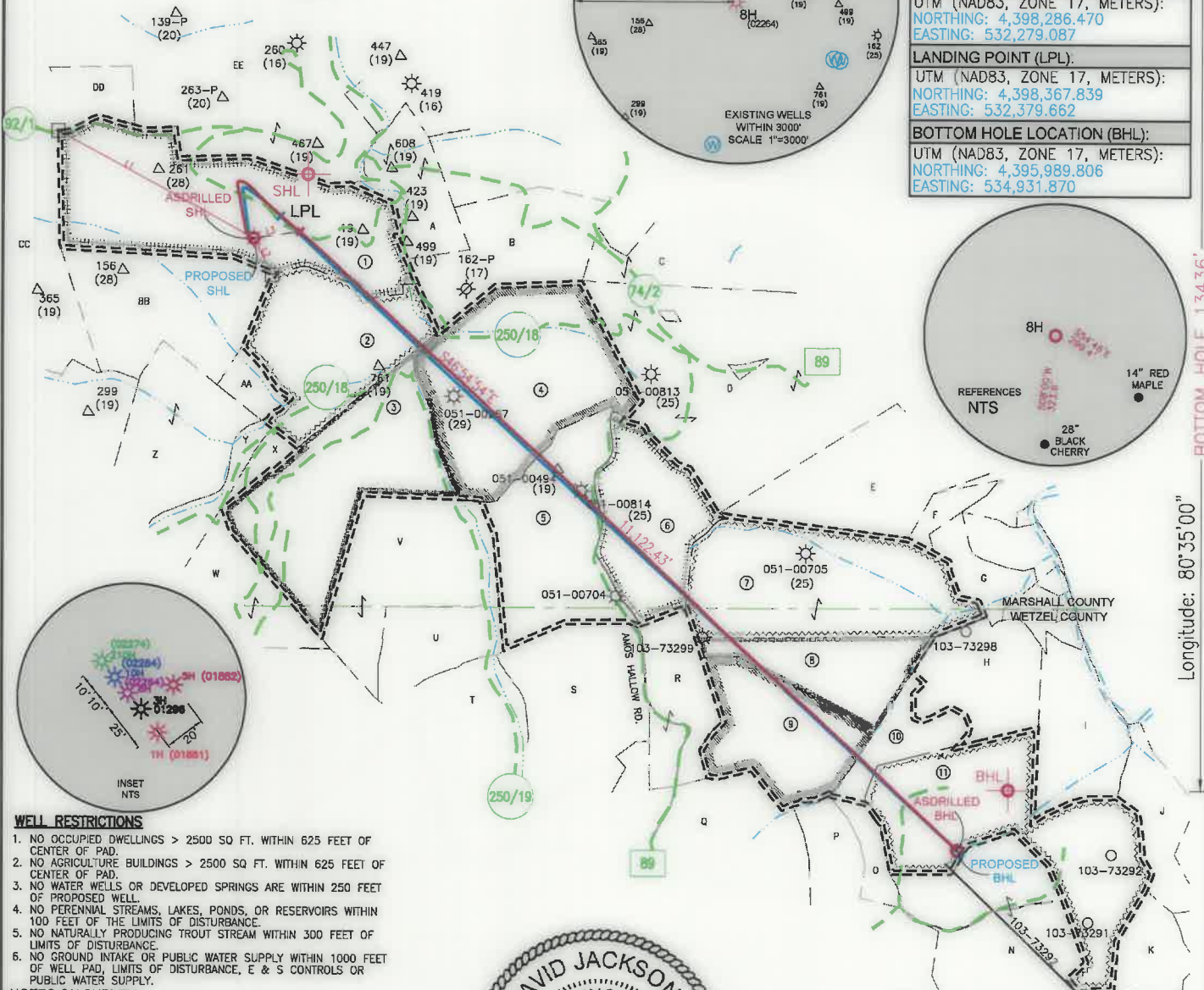
JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 61°39'29" W	2752.81'	SHL TO LANDMARK	CNR FENCE POST
L2	S 26°37'00" E	500.56'	SHL TO LANDMARK	LARGE STONE
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L3	N 81°28'37" E	567.66'	CURVE LENGTH	1771.29'

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,286.398	EASTING: 532,279.075
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,312.041	EASTING: 532,450.187
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,395,996.309	EASTING: 534,926.134
SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,286.470	EASTING: 532,279.087
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,367.839	EASTING: 532,379.662
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,395,989.806	EASTING: 534,931.870



WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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.

David L Jackson
P.S.



COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: SHAWN HARLAN MSH 8H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	API WELL #: 47 STATE, 051 COUNTY, 02264 PERMIT

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

WATERSHED: LAUREL RUN OF FISH CREEK (HUC-10) ELEVATION: 1391.3'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: LITTLETON, WV

SURFACE OWNER: SCOTT L. HARLAN & SHAWN D. HARLAN ACREAGE: ±126.15

OIL & GAS ROYALTY OWNER: SEE (1) IN WELL PLAT BORE TABLE ON PAGE 2 ACREAGE: ±126.15

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

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) ASDRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7.474 TVD 19.050 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION W EXISTING WATER WELL S EXISTING SPRING	SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY ASDRILLED PATH PROPOSED PATH	REVISIONS:	DATE: 09-01-2020
		DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT	

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SCOTT L. HARLAN & SHAWN D. HARLAN (S) JANET E. WILBUR A/K/A JANET T. WILBUR, A/K/A JANET E. TEAGARDEN WILBUR, DAVID A. TEAGARDEN, EVA T. STALKER (EVA T. STALKER, TRUSTEE OF THE EVA T. STALKER TRUST, DATED DECEMBER 28, 1989), JEANNE G. DECLUE (THE JEANNE GOVRO DE CLUE, REVOCABLE LIVING TRUST UDT JULY 9, 2001), STEPHEN E. JUSTMAN, HAYHURST COMPANY (CHESTNUT HOLDINGS, INC.), JACK HAMMERS, PAUL HAMMERS, TWILA ORA WHIPKEY (TWILA ORA WHIPKEY TRUST DATED 8/25/1999, WESBANCO BANK WHEELING, TRUSTEE), TONI JO MASON, ERICA M. MASON, O.E. BURGE (ONWARD E. BURGE, SARAH L. BURGE AND STEPHEN W. BURGE, TRUSTEES OF THE ONWARD E. BURGE TRUST DATED JUNE 21, 2010 & SARAH L. BURGE, ONWARD E. BURGE AND STEPHEN W. BURGE, TRUSTEES OF THE SARAH L. BURGE TRUST DATED JUNE 21, 2010), A.L. EVANS AND RACHEL EVANS, (DONNA K. ALLEN, MARY LOU KITTELBERGER, DEBRA A. LIKAVEC AND JOHN D. LIKAVEC, NANCY JO BLOCK, CHAD E. LONGFELLOW, HOLLY A. LONGFELLOW, TRACY L. BARNBY, LLOYD R. EVANS, GLORIA STINE, ROBERT W. CUBBAGE, CLIFFORD CUBBAGE, ROBERT W. CUBBAGE, KAREN CUBBAGE, DALE E. WORKMAN, SANDRA E. RUSH, ERMA NELDA JEFFERSON, LAURA K. BAKER, DEBORAH A. COLLINS, PATTY D. JEFFERSON, JOYCE L. LAMB, STACY L. LYONS CARLA CARSWELL DAVIS, MEL TODD CARSWELL, JENNIFER CARSWELL BRIERE, FRANK K. BONACICH, JR., JEAN J. MEIER, HOWARD RAY FURBEE, ROBERT DALE FURBEE, DOROTHY EVANS, ELLEN G. KIRKBRIDE, DARLENE KAY ALBORN, MARLENE FAY WAGMILLER, ELMER DEAN EVANS, JACK HAMMERS, PAUL HAMMERS, TWILA ORA WHIPKEY TRUST DATED 8/25/1999, WESBANCO BANK WHEELING, TRUSTEE, TONI JO MASON, ERICA MASON, O.E. BURGE AND SARAH LOU BURGE, H/W AND STEPHEN BURGE, (CHESTNUT HOLDINGS). (R)	07-28-01
TRACT	SURFACE OWNER	TAX PARCEL
2	CARL R. RICHMOND & EILENE R. RICHMOND (S)	07-28-13
3	APPALACHIA MIDSTREAM SERVICES, LLC. (S)	07-28-08
4	MATTHEW ALLAN RICHMOND (S)	07-28-05
5	CHRISTOPHER COX & NIKKI COX (S)	07-28-07
6	VICENZO MICELI, ET UX (S)	07-28-06
7	EDWARD E. WADE JR. (S)	07-27-20
8	EDWARD E. WADE JR. (S)	01-02-14
9	MARY E. PYLES (S)	01-02-03
10	BRIAN T. FERDA & VI-EVA FERDA (S)	01-02-13
11	LARRY RINE, ET AL (S)	P/O 01-02-08

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS, LLC.	07-28-02
B	JAMES E. MORGAN-LIFE	07-28-04
C	WV WILDLIFE RESOURCES SECTION	07-24-01
D	JOHN E. RIGGS JR. & DALENA RIGGS	07-27-02
E	JOSEPH L. SCHANCK & KATHERINE SCHANCK	07-28-18
F	WV WILDLIFE RESOURCES SECTION	07-27-17
G	BRIAN T. FERDA, ET UX	07-27-15
H	BRIAN T. FERDA & VI-EVA FERDA	01-02-04
I	STEPHEN ROSS MCINTYRE	01-02-05
J	WM. BALTZ, TRUSTEE OF VH & F CLUB, ET AL	01-02-5.1
K	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	01-02-09
L	WILLIAM E. RENNER & WILLIAM J. RENNER	01-05-07
M	WILLIAM E. RENNER	01-05-04
N	LARRY RINE, ET AL	p/o 01-02-08
O	LARRY G. RINE & JANA L. RINE	01-05-03
P	LARRY G. RINE & JANA L. RINE	01-05-3.2
Q	MARY E. PYLES	01-02-07
R	FLOYD B. JOHNSON	01-02-02
S	FLOYD B. JOHNSON	01-02-01
T	SHAWN D. HARLAN & VINCENT HARLAN	01-01-08
U	WILMA JARRELL, ET AL	01-01-07
V	APPALACHIA MIDSTREAM SERVICES	01-01-06
W	MASON DIXON FARMS, LLC.	07-28-15
X	JOHN C. RICHARDS, ET UX	07-28-09
Y	MASON DIXON FARMS, LLC.	07-28-10
Z	MASON DIXON FARMS, LLC.	07-28-11
AA	G. DAVID EVICK	07-28-13.1
BB	G. DAVID EVICK	07-28-14
CC	JAMES E. MORGAN-LIFE	07-28-13.1
DD	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-9.1
EE	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-09

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R⁺}_A → V⁺
Production Company™

OPERATOR'S SHAWN HARLAN MSH

API #:

DATE: 09-01-2020

WELL #: 8H

47-051-02264

DRAWN BY: N. MANO

DISTRICT:
LIBERTY

COUNTY:
MARSHALL

STATE:
WV

SCALE: N/A

DRAWING NO:
WELL LOCATION PLAT 2