

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

API 47 - 051 - 02271 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 410H  
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 4,398,293.848 Easting 532,273.164  
Landing Point of Curve Northing 4,398,787.786 Easting 532,942.952  
Bottom Hole Northing 4,396,366.499 Easting 535,553.301

Elevation (ft) 1,391.2' 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 10/25/2019 Date drilling commenced 2/15/2020 Date drilling ceased 3/01/2020  
Date completion activities began 5/03/2020 Date completion activities ceased 6/24/2020  
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 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:  
*John Williams*  
12/07/2020

API 47-051 - 02271 Farm name SCOTT L. HARLAN & SHAWN D. HARLAN Well number SHAWN HARLAN MSH 410H

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	609'	NEW	J-55/54.50#		Y; 15 BBLs
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2,735'	NEW	J-55/36#		Y; 46 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	19,879'	NEW	HCP-110/20#		Y; 38 BBLs
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 <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	601	15.60	1.21	727.21	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	1,109	16.00	1.11	1,230.99	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,600	15.60	1.18	4,248	SURFACE	24
Tubing							

Drillers TD (ft) 19,879' Loggers TD (ft) 19,879'

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

Plug back procedure N/A

Kick off depth (ft) 7,015'

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Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic WV Department of Environmental Protection

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 \_\_\_\_\_





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# Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	5/3/2020
Job End Date:	6/17/2020
State:	West Virginia
County:	Marshall
API Number:	47-051-02271-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	SHAWN HARLAN MSH 410
Latitude:	39.73392381
Longitude:	-80.62337391
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,366
Total Base Water Volume (gal):	20,114,326
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
Sand	SWN Well Services	Proppant					
				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			

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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			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				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.

		Water	7732-18-5	100.00000	90.36624	Density = 8.345
		Crystalline Silica, quartz	14808-60-7	100.00000	9.03778	
		Water	7732-18-5	85.00000	0.47377	
		Hydrochloric Acid	7647-01-0	15.00000	0.06634	
		Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.02964	
		Tetrakis	55566-30-8	55.00000	0.01451	
		Glycerin	56-81-5	50.00000	0.00287	
		Ammonium Chloride	12125-02-9	2.00000	0.00237	

			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00178	RECEIVED Office of Oil and Gas SEP 18 2020 MW Department of Environmental Protection
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00178	
			Acetic Acid	64-19-7	37.50000	0.00088	
			Diethylenetriamine penta	15827-60-8	10.00000	0.00057	
			Methanol	67-56-1	80.00000	0.00054	
			Citric Acid	77-92-9	22.50000	0.00053	
			Acrylic acid terpolymer	397256-50-7	1.00000	0.00026	
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00007	
			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)



**SHAWN HARLAN MSH 410H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	3/4/2020	19,832	19,740	36
2	5/3/2020	19,704	19,527	36
3	5/7/2020	19,494	19,318	36
4	5/9/2020	19,285	19,108	36
5	5/10/2020	19,075	18,898	36
6	5/11/2020	18,865	18,688	36
7	5/11/2020	18,656	18,479	36
8	5/15/2020	18,446	18,269	36
9	5/16/2020	18,236	18,059	36
10	5/17/2020	18,026	17,850	36
11	5/18/2020	17,817	17,642	36
12	5/19/2020	17,607	17,435	36
13	5/19/2020	17,397	17,219	36
14	5/19/2020	17,183	17,011	36
15	5/20/2020	16,976	16,801	36
16	5/20/2020	16,768	16,591	36
17	5/27/2020	16,558	16,382	36
18	5/28/2020	16,349	16,172	36
19	5/28/2020	16,139	15,966	36
20	5/29/2020	15,929	15,750	36
21	5/29/2020	15,722	15,543	36
22	5/30/2020	15,510	15,333	36
23	5/31/2020	15,300	15,124	36
24	5/31/2020	15,091	14,914	36
25	6/3/2020	14,878	14,704	36
26	6/1/2020	14,671	14,494	36
27	6/1/2020	14,461	14,285	36
28	6/2/2020	14,252	14,075	36
29	6/3/2020	14,042	13,860	36
30	6/3/2020	13,832	13,660	36
31	6/4/2020	13,623	13,446	36
32	6/4/2020	13,413	13,236	36
33	6/5/2020	13,205	13,027	36
34	6/5/2020	12,994	12,817	36
35	6/6/2020	12,784	12,608	36
36	6/6/2020	12,574	12,397	36
37	6/6/2020	12,364	12,188	36
38	6/7/2020	12,155	11,978	36
39	6/7/2020	11,943	11,768	36
40	6/8/2020	11,735	11,559	36
41	6/8/2020	11,526	11,349	36
42	6/9/2020	11,316	11,139	36

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**SHAWN HARLAN MSH 410H  
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	5/3/2020	76	8,425	7,058	3,910	175,350	6,947	0
2	5/5/2020	85	8,988	6,074	4,202	237,870	7,997	0
3	5/8/2020	94	8,887	6,240	4,946	308,320	9,470	0
4	5/9/2020	89	9,108	5,997	5,562	306,390	9,209	0
5	5/11/2020	87	9,040	5,925	5,952	299,460	9,298	0
6	5/11/2020	93	9,092	5,619	5,212	309,860	9,089	0
7	5/14/2020	97	8,631	6,502	4,368	307,810	8,224	0
8	5/16/2020	101	9,092	5,808	5,840	302,150	8,454	0
9	5/17/2020	88	8,798	6,231	4,871	307,880	8,378	0
10	5/17/2020	93	9,085	5,987	5,127	303,160	8,751	0
11	5/18/2020	93	9,155	6,391	5,667	320,600	8,886	0
12	5/19/2020	90	9,054	6,175	5,272	302,290	8,595	0
13	5/19/2020	100	9,058	6,018	5,703	313,960	8,803	0
14	5/20/2020	97	8,883	5,442	4,040	302,160	8,572	0
15	5/20/2020	98	9,094	5,951	5,341	301,510	8,768	0
16	5/22/2020	90	9,180	6,102	5,289	152,010	5,459	0
17	5/28/2020	97	9,317	5,426	5,366	301,570	8,686	0
18	5/28/2020	85	9,205	6,246	4,730	298,360	8,493	0
19	5/29/2020	93	9,040	5,987	5,184	308,300	8,653	0
20	5/29/2020	86	9,085	6,357	4,715	271,830	7,629	0
21	5/30/2020	87	8,707	7,148	4,907	304,520	7,894	0
22	5/30/2020	90	90	6,103	4,787	302,200	8,801	0
23	5/31/2020	86	8,727	5,894	5,966	302,270	8,475	0
24	5/31/2020	93	8,967	5,386	4,929	309,250	8,689	0
25	6/1/2020	90	8,742	5,705	6,345	306,620	8,534	0
26	6/1/2020	94	8,856	5,591	4,885	316,390	8,530	0
27	6/2/2020	88	8,391	5,996	5,274	307,450	8,320	0
28	6/3/2020	95	8,769	5,668	4,740	310,810	8,877	0
29	6/3/2020	89	8,382	6,243	5,075	311,080	8,668	0
30	6/4/2020	96	8,697	5,699	4,927	307,650	8,618	0
31	6/4/2020	92	8,430	6,007	5,247	307,970	8,384	0
32	6/5/2020	95	8,808	5,877	5,113	312,830	8,996	0
33	6/5/2020	89	8,331	6,003	5,919	306,330	8,760	0
34	6/5/2020	93	8,903	6,709	6,063	297,900	8,644	0
35	6/6/2020	92	8,358	5,878	4,627	309,240	8,695	0
36	6/6/2020	95	8,436	6,215	4,833	309,120	8,484	0
37	6/7/2020	91	8,078	5,785	5,557	301,860	8,016	0
38	6/7/2020	96	8,139	5,279	5,783	308,410	8,445	0
39	6/8/2020	95	8,648	6,299	5,370	303,530	8,265	0
40	6/8/2020	95	8,415	6,039	5,327	306,630	8,437	0
41	6/8/2020	96	8,290	6,012	5,168	303,200	8,522	0
42	6/9/2020	98	8,136	5,962	5,899	312,350	8,558	0
43	6/9/2020	96	8,246	6,012	4,612	302,770	8,146	0
44	6/10/2020	97	7,930	6,039	5,393	311,300	14,590	0
45	6/11/2020	98	7,985	6,192	5,323	305,280	11,450	0
46	6/12/2020	99	7,993	6,473	5,326	304,120	8,259	0
47	6/13/2020	101	8,006	6,278	6,100	307,170	8,389	0
48	6/14/2020	100	7,805	6,394	5,421	308,150	8,285	0
49	6/14/2020	101	7,882	6,301	5,464	300,620	8,422	0
50	6/14/2020	101	7,865	6,130	4,932	303,080	7,886	0
51	6/15/2020	100	7,838	6,475	4,592	312,090	7,970	0
52	6/16/2020	100	7,841	6,331	4,707	307,400	8,323	0
53	6/16/2020	100	7,850	6,036	4,927	314,600	8,449	0
54	6/16/2020	101	8,151	5,983	4,671	310,490	8,218	0
55	6/17/2020	98	7,971	6,032	5,021	309,060	8,471	0
56	6/17/2020	100	7,744	6,335	4,322	302,970	8,272	0

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43	6/9/2020	11,106	10,930	36
44	6/10/2020	10,900	10,724	72
45	6/11/2020	10,687	10,510	36
46	6/12/2020	10,477	10,300	36
47	6/13/2020	10,267	10,091	36
48	6/13/2020	10,058	9,881	36
49	6/14/2020	9,848	9,671	36
50	6/14/2020	9,638	9,461	36
51	6/14/2020	9,433	9,252	36
52	6/15/2020	9,219	9,042	36
53	6/16/2020	9,009	8,833	36
54	6/16/2020	8,800	8,623	36
55	6/17/2020	8,590	8,417	36
56	6/17/2020	8,380	8,206	36

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Latitude: 39°45'00"

SURFACE HOLE 11259'

Latitude: 39°45'00" BOTTOM HOLE 525'

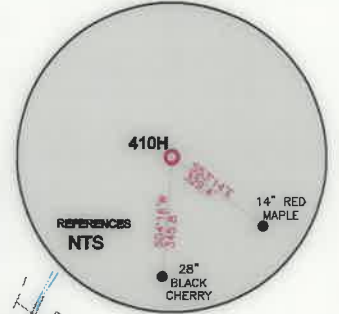
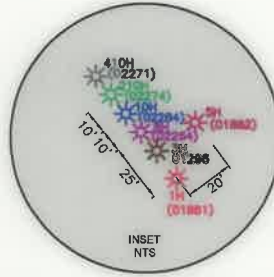
# JACKSON SURVEYING INC.

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

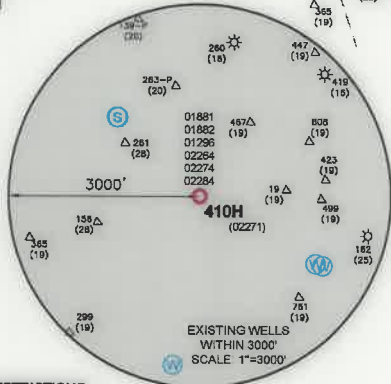
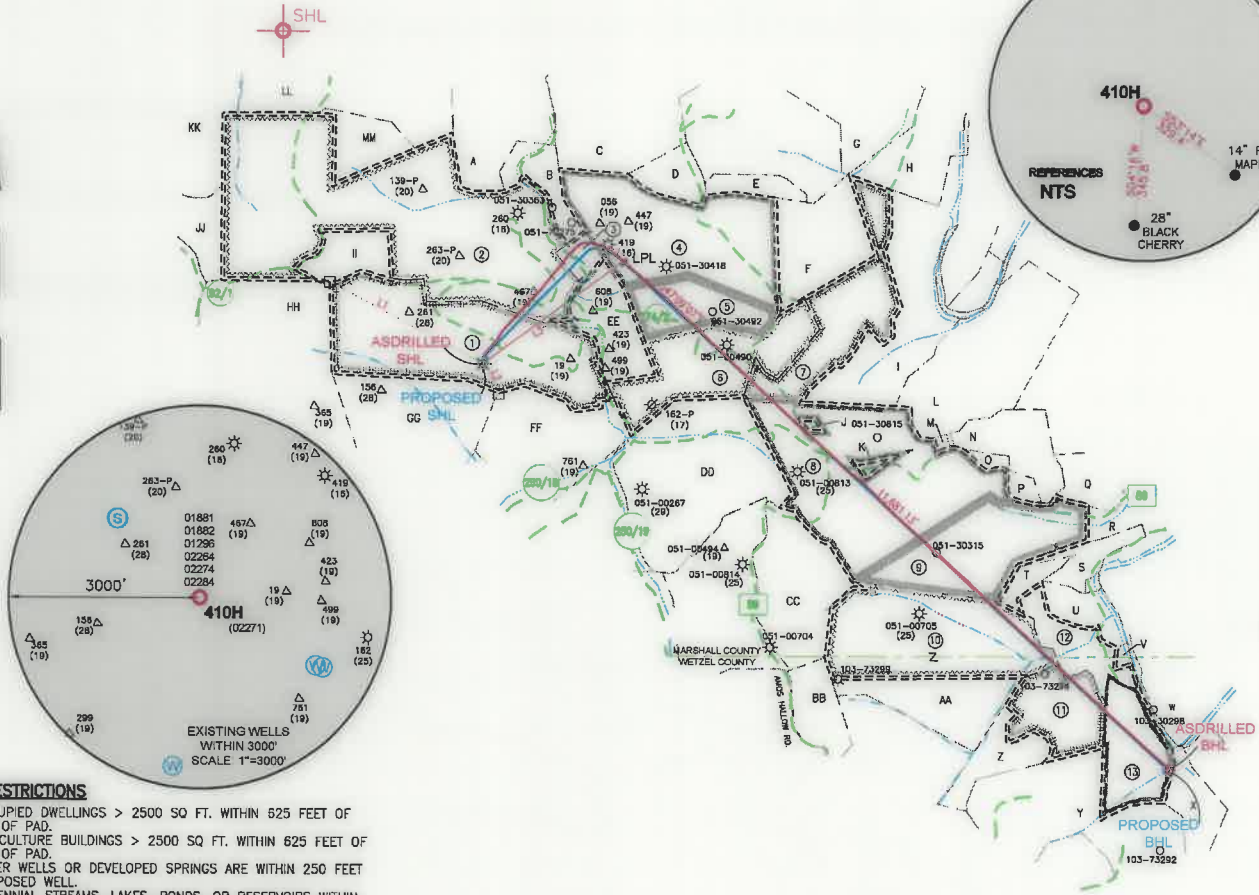
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 61°55'00" W	2724.17'	SHL TO LANDMARK	CNR FENCE POST
L2	S 27°18'20" E	531.13'	SHL TO LANDMARK	LARGE STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 54°35'34" E	2730.38'	3228.53'	SHL TO LPL

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,398,293.848
EASTING: 532,273.164
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,398,787.786
EASTING: 532,942.952
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,396,366.499
EASTING: 535,553.301

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,398,293.614
EASTING: 532,273.344
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,398,777.87
EASTING: 532,950.017
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,396,360.993
EASTING: 535,546.802



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



### WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 525 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 525 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

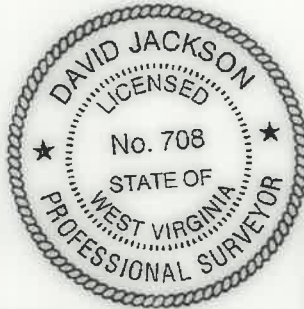
### NOTES ON SURVEY

- 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.
- 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.

P.S. 708

*David L Jackson*



3000 0 3000

GRAPHIC SCALE IN FEET

COMPANY:

**SWN**  
Production Company, LLC

**SWN**  
Production Company™

SHAWN HARLAN MSH

OPERATOR'S WELL #: 410H

API WELL #:	47	051	02271
	STATE	COUNTY	PERMIT

(+) 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)

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

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

ELEVATION: 1391.2'

DISTRICT: LIBERTY COUNTY: MARSHALL

QUADRANGLE: LITTLETON

SURFACE OWNER: SCOTT L. HARLAN AND SHAWN HARLAN

ACREAGE: 126.15

OIL & GAS ROYALTY OWNER: SEE (1) IN WELL 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: 7,478 TVD 19,879 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
- ⊙ EXISTING WATER WELL
- ⊙ EXISTING SPRING

- SURVEYED BOUNDARY
- DRILLING UNIT
- == LEASE BOUNDARY
- ASDRILLED PATH
- PROPOSED PATH

### REVISIONS:

DATE: 09-01-2020
DRAWN BY: N. MANO
SCALE: 1" = 3000'
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	C. MICHAEL BLAIR & LINDA L. BLAIR (S)	07-18-09
3	M. ZACHARY BLAIR (S)	07-19-35
4	JOHN M. HORNER & TERESA L. HORNER (S)	07-19-36
5	JAMES E. MORGAN-LIFE (S)	07-28-03
6	JAMES E. MORGAN-LIFE (S)	07-28-04
7	JAMES E. MORGAN-LIFE (S)	07-26-14
8	JOHN E. RIGGS JR. & DALENA RIGGS (S)	07-27-02
9	JOSEPH L. SCHANCK & KATHERINE SCHANCK (S)	07-27-18
10	EDWARD E. WADE JR. (S)	07-27-20
11	BRIAN T. FERDA & VI-EVA FERDA (S)	01-02-04
12	BRIAN T. FERDA, ET UX (S)	07-27-15
13	STEPHEN ROSS MCINTYRE (S)	01-02-05

## ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS, LLC	07-18-07
B	LLOYD A. KARR, ET UX	07-19-33
C	JOHN M. HORNER & TERESA L. HORNER	07-19-32
D	MARY L. CHAMBERS	07-19-31
E	JOHN M. HORNER & TERESA L. HORNER	07-19-30.1
F	JENNIFER L. ROMARK TRUST, ET AL	07-19-38
G	M. PEGGY GRIBBEN REVOCABLE LIVING TRUST	07-19-29
H	M. PEGGY GRIBBEN REVOCABLE LIVING TRUST	07-19-28
I	WEST VIRGINIA WILDLIFE RESOURCES SECTION	07-24-01
J	SAMUEL C. WADE & ROSE V. BLAKE	07-27-2.3
K	JOHN E. RIGGS, JR. & DALENA RIGGS	07-27-01
L	CHARLES E. HORNER, ET UX	07-26-10
M	HOWARD L. DEBOLD, ET AL	07-27-2.2
N	IRENE PYLES & DALE PYLES-LIFE	07-27-03
O	JOHN E. RIGGS & DALENA RIGGS	07-27-2.1
P	IRENE PYLES & DALE PYLES	07-27-3.1
Q	BETTY T. FRANKLIN	07-27-05
R	JOSEPHINE PARRIOTT, ET AL	07-27-09
S	ANNIE L. GEHO EST.	07-27-21
T	WV WILDLIFE RESOURCES SECTION	07-27-17
U	BRIAN T. FERDA, ET UX	07-27-16
V	SCOTT M. FITZSIMMONS, ET AL	07-27-14
W	PETER V. VELLEKOOP, ET UX	07-27-13
X	WILLIAM BALTZ, TR. OF VH & F CLUB, ET AL	01-02-5.1
Y	LARRY RINE, ET AL	P/O 01-02-08
Z	BRIAN T. FERDA & VI-EVA FERDA	01-02-13
AA	EDWARD E. WADE JR.	01-02-14
BB	FLOYD B. JOHNSON	01-02-02
CC	VICENZO MICELI, ET UX	07-28-06
DD	MATTHEW ALLAN RICHMOND	07-28-05
EE	MASON DIXON FARMS, LLC.	07-28-02
FF	CARL R. RICHMOND & EILENE R. RICHMOND	07-28-13
GG	G. DAVID EVICK	07-28-14
HH	JAMES E. MOGAN-LIFE	07-29-04
II	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-9.1
JJ	RONALD K. NEELY & DONA L. NEELY	07-18-10
KK	HOY GLENN CROW, ET UX	07-18-11
LL	MASON DIXON FARMS, LLC	07-18-8.1
MM	BERNARD P. TWIGG AND SHARON ANN TWIGG	07-18-08

REVISIONS:

COMPANY:

**SWN**  
Production Company, LLC

**SWN** <sup>R<sup>+</sup></sup>/<sub>A</sub> → V<sup>+</sup>  
Production Company™

OPERATOR'S

SHAWN HARLAN MSH

API #

DATE: 09-01-2020

WELL #:

410H

47-051-02271

DRAWN BY: N. MANO

DISTRICT:  
LIBERTY

COUNTY:  
MARSHALL

STATE:  
WV

SCALE: N/A

DRAWING NO:  
WELL LOCATION PLAT 2

