

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  
JUN 7 2022

WV Department of  
Environmental Protection

API 47 - 051 - 02387 County MARSHALL District LIBERTY  
Quad GLEN EASTON, WV Pad Name O E BURGE MSH PAD Field/Pool Name VICTORY FIELD WET  
Farm name MASON DIXON FARMS, LLC Well Number O E BURGE MSH 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 4,400,176.589 Easting 531,546.550  
Landing Point of Curve Northing 4,400,112.346 Easting 531,442.918  
Bottom Hole Northing 4,403,110.304 Easting 528,496.715

Elevation (ft) 1,342 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

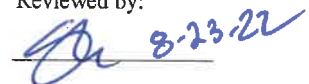
Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
SOBM

Date permit issued 8/25/2021 Date drilling commenced 10/21/2021 Date drilling ceased 11/06/2021  
Date completion activities began 1/11/2022 Date completion activities ceased 3/22/2022  
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 228' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,118' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1,091' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed

Reviewed by:  


09/09/2022

API 47-051 - 02387 Farm name MASON DIXON FARMS, LLC Well number O E BURGE MSH 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	327	NEW	J-55/54.5#		Y: 17 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,740	NEW	J-55/36#		Y: 79 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	21,414	NEW	HPP-110/20#		N
Tubing							
Packer type and depth set							

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

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	336	15.6	1.12	376.32	SURFACE	8
Coal							
Intermediate 1	CLASS A	1,205	16.0	1.12	1,349.6	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,669	15.0	1.29	4,733.01	1,669'	24
Tubing							

Drillers TD (ft) 21,414' Loggers TD (ft) 21,414'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) 21,323'  
 Plug back procedure N/A

Kick off depth (ft) 6,310' MD

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

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

SURFACE: 5 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 INTERMEDIATE: 34 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 433 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 \_\_\_\_\_

API 47- 051 - 02387 Farm name MASON DIXON FARMS, LLC Well number O E BURGE MSH 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations 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 (units)
		SEE	ATTACHMENT	2				

Please insert additional pages as applicable.

API 47- 051 - 02387 Farm name MASON DIXON FARMS, LLC Well number O E BURGE MSH 1H

PRODUCING FORMATION(S)	DEPTHS		
MARCELLUS	7,090'	TVD	7,363' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2,383 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 18,134 mcfpd Oil 142 bpd NGL \_\_\_\_\_ bpd Water 626 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION TOP DEPTH IN FT BOTTOM DEPTH IN FT TOP DEPTH IN FT BOTTOM DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)

LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	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.

Completed by CAROL A. PRUITT Telephone 832-796-3007  
Signature *Carol A. Pruitt* Title SR. REGULATORY ANALYST Date 6/06/2022

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

09/09/2022

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/11/2022
Job End Date:	3/14/2022
State:	West Virginia
County:	Marshall
API Number:	47-051-02387-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	O E BURGE MSH 1
Latitude:	39.75091454
Longitude:	-80.63176301
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,103
Total Base Water Volume (gal):	24,637,320
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	90.70305	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.35565	

			Water	7732-18-5	85.00000	0.35565	
			Water	7732-18-5	85.00000	0.35565	
Sand	SWN Well Services	Proppant					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Plexslick V996	SWN Well Services	Friction Reducer					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				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	8.81717	
			Hydrochloric Acid	7647-01-0	15.00000	0.05478	

			Sodium Erythorbate	6381-77-7	100.00000	0.00195	
			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00177	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00029	
			Ethylene glycol	107-21-1	40.00000	0.00022	
			Ethanol	64-17-5	2.50000	0.00010	
			Cinnamaldehyde	104-55-2	10.00000	0.00006	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00006	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	
			Triethyl phosphate	78-40-0	5.00000	0.00003	
			1-Octanol	111-87-5	5.00000	0.00003	
			Isopropyl alcohol	67-63-0	5.00000	0.00003	
			1-Decanol	112-30-1	5.00000	0.00003	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00003	

\* 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)

**O E BURGE MSH 1H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	12/29/2021	21,323	21,229	36
2	1/13/2022	21,195	21,018	36
3	1/13/2022	20,985	20,807	36
4	1/14/2022	20,774	20,597	36
5	1/16/2022	20,564	20,387	36
6	1/20/2022	20,354	20,176	36
7	1/23/2022	20,143	19,966	36
8	1/24/2022	19,933	19,756	36
9	1/27/2022	19,723	19,545	36
10	1/28/2022	19,512	19,335	36
11	1/29/2022	19,302	19,125	36
12	1/30/2022	19,092	18,914	36
13	1/31/2022	18,881	18,704	36
14	2/1/2022	18,671	18,494	36
15	2/2/2022	18,461	18,283	36
16	2/2/2022	18,250	18,073	36
17	2/6/2022	18,040	17,863	36
18	2/7/2022	17,830	17,653	36
19	2/8/2022	17,619	17,442	36
20	2/9/2022	17,409	17,232	36
21	2/10/2022	17,199	17,022	36
22	2/10/2022	16,988	16,811	36
23	2/11/2022	16,778	16,601	36
24	2/12/2022	16,568	16,391	36
25	2/12/2022	16,358	16,180	36
26	2/12/2022	16,147	15,970	36
27	2/13/2022	15,937	15,760	36
28	2/14/2022	15,727	15,549	36
29	2/15/2022	15,516	15,339	36
30	2/16/2022	15,306	15,129	36
31	2/17/2022	15,096	14,918	36
32	2/18/2022	14,885	14,708	36
33	2/18/2022	14,675	14,498	36
34	2/19/2022	14,465	14,287	36
35	2/20/2022	14,254	14,077	36
36	2/20/2022	14,044	13,867	36
37	2/21/2022	13,834	13,656	36
38	2/22/2022	13,623	13,446	36
39	2/22/2022	13,413	13,236	36
40	2/23/2022	13,203	13,025	36
41	2/24/2022	12,992	12,815	36
42	2/24/2022	12,782	12,605	36
43	2/25/2022	12,572	12,394	36



**O E BURGE MSH 1H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	2/27/2022	12,361	12,184	36
45	2/27/2022	12,151	11,974	36
46	2/28/2022	11,941	11,763	36
47	3/1/2022	11,730	11,553	36
48	3/2/2022	11,520	11,343	36
49	3/3/2022	11,310	11,132	36
50	3/3/2022	11,099	10,922	36
51	3/4/2022	10,889	10,712	36
52	3/5/2022	10,679	10,501	36
53	3/5/2022	10,468	10,291	36
54	3/6/2022	10,258	10,081	36
55	3/6/2022	10,048	9,870	36
56	3/7/2022	9,837	9,660	36
57	3/8/2022	9,627	9,450	36
58	3/9/2022	9,417	9,239	36
59	3/9/2022	9,206	9,029	36
60	3/10/2022	8,996	8,819	36
61	3/11/2022	8,786	8,609	36
62	3/11/2022	8,575	8,398	36
63	3/12/2022	8,365	8,188	36
64	3/13/2022	8,155	7,978	36
65	3/14/2022	7,944	7,767	36
66	3/14/2022	7,734	7,557	36

## O E BURGE MSH 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/other
1	1/11/2022	70.4	7,901	7,375	4,472	175,600	9,930	0
2	1/13/2022	89.2	9,185	5,680	3,588	299,820	11,701	0
3	1/14/2022	91.7	8,943	5,788	4,816	305,400	10,492	0
4	1/16/2022	84.7	9,186	3,976	4,866	306,800	9,715	0
5	1/20/2022	79	9,357	6,211	5,102	304,380	9,587	0
6	1/23/2022	99.2	9,650	5,732	5,227	302,900	10,234	0
7	1/24/2022	95.3	9,187	5,842	5,648	304,180	9,117	0
8	1/26/2022	88	9,197	6,257	5,019	302,700	9,321	0
9	1/28/2022	91.9	9,066	6,488	5,242	307,770	9,363	0
10	1/29/2022	89	8,466	6,445	5,789	300,300	11,144	0
11	1/30/2022	99.2	9,233	5,689	6,122	301,100	8,778	0
12	1/31/2022	74.2	7,024	5,788	5,858	305,040	9,188	0
13	2/1/2022	93.1	8,725	6,271	5,562	310,120	8,714	0
14	2/2/2022	96.3	9,316	6,044	5,284	304,620	8,958	0
15	2/2/2022	87.5	9,542	6,002	5,168	307,250	8,929	0
16	2/6/2022	83.7	9,621	6,562	4,679	303,380	8,936	0
17	2/7/2022	91.1	9,653	5,621	4,645	301,900	8,965	0
18	2/8/2022	90.5	9,309	6,096	4,897	309,100	8,867	0
19	2/9/2022	97.6	8,511	6,170	5,347	301,330	9,172	0
20	2/10/2022	99.2	8,514	6,315	4,512	295,200	8,790	0
21	2/10/2022	95.8	8,162	6,418	5,088	307,420	8,947	0
22	2/11/2022	95.3	8,031	6,571	4,512	316,950	9,107	0
23	2/12/2022	98.3	8,888	6,234	5,614	304,910	9,163	0
24	2/12/2022	98.6	8,257	6,471	5,486	308,060	8,932	0
25	2/12/2022	96.8	8,293	5,961	5,051	300,540	8,613	0
26	2/13/2022	96.4	7,890	5,679	5,298	306,280	8,922	0
27	2/13/2022	95.2	8,107	6,085	4,700	271,900	7,982	0
28	2/15/2022	89	7,776	6,914	5,013	308,500	15,248	0
29	2/16/2022	93.1	7,733	5,409	4,526	301,650	8,985	0
30	2/17/2022	95.3	8,009	6,520	5,123	305,270	8,660	0
31	2/18/2022	93.8	7,946	6,428	5,410	300,810	8,343	0
32	2/18/2022	98	9,127	6,129	5,126	301,360	8,153	0
33	2/19/2022	91	7,786	6,034	4,756	306,560	8,818	0
34	2/20/2022	97.9	7,841	5,925	5,320	309,640	8,666	0
35	2/20/2022	99	8,532	6,507	5,455	302,060	8,162	0
36	2/21/2022	86	7,526	6,281	4,723	305,380	10,486	0
37	2/22/2022	92.7	8,135	6,388	4,989	308,480	9,058	0
38	2/22/2022	99	8,956	6,171	5,651	301,160	8,091	0
39	2/23/2022	99.6	7,855	6,012	4,632	301,850	8,564	0
40	2/23/2022	99.6	8,327	6,255	5,485	301,960	8,098	0
41	2/24/2022	99.7	8,999	6,425	6,225	304,820	8,175	0
42	2/25/2022	99.7	8,028	5,982	6,258	298,800	8,125	0
43	2/27/2022	99.9	7,959	6,221	6,257	310,210	8,338	0
44	2/27/2022	97.9	7,941	6,425	5,785	304,200	9,879	0
45	2/28/2022	96.6	8,155	5,878	5,287	311,460	8,489	0
46	3/1/2022	97.3	7,977	6,081	4,765	305,870	8,539	0
47	3/2/2022	99.5	8,271	6,533	4,897	307,610	8,487	0
48	3/3/2022	99.5	7,895	6,294	4,965	305,830	8,459	0
49	3/3/2022	94.9	7,695	5,892	4,819	303,510	8,406	0
50	3/4/2022	98.9	7,955	6,104	4,505	303,380	8,369	0
51	3/5/2022	98.6	7,925	5,895	4,855	307,450	8,431	0
52	3/5/2022	99.4	8,414	6,484	4,901	306,120	8,266	0
53	3/6/2022	99	7,881	6,391	4,814	309,930	8,352	0

O E BURGE MSH 1H

ATTACHMENT 2

STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	(SIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
54	3/6/2022	87.4	7,603	5,831	4,654	310,980	8,461	0
55	3/7/2022	98.8	7,984	6,348	4,856	306,070	8,337	0
56	3/8/2022	99.2	7,817	6,054	4,651	307,560	8,345	0
57	3/8/2022	99.1	7,881	6,097	4,785	307,200	8,250	0
58	3/9/2022	99.2	7,737	6,356	4,635	303,850	8,321	0
59	3/10/2022	99.1	7,902	6,635	5,456	306,310	7,879	0
60	3/10/2022	99	7,495	6,348	4,813	312,090	8,297	0
61	3/11/2022	99.2	7,666	6,371	4,930	302,830	8,390	0
62	3/12/2022	98.8	7,575	6,146	4,768	306,850	8,189	0
63	3/13/2022	99.2	7,639	6,355	5,050	298,570	8,369	0
64	3/14/2022	99.2	8,004	6,173	5,135	305,800	8,272	0
65	3/14/2022	99.2	7,620	6,118	4,551	312,100	8,264	0
66	3/14/2022	98.8	7,751	5,994	4,734	307,020	8,222	0

Latitude: 39°47'30"

SURFACE HOLE 1900'

JACKSON SURVEYING INC.

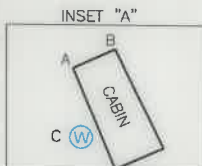
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
304-623-5851

Latitude: 39°47'30"

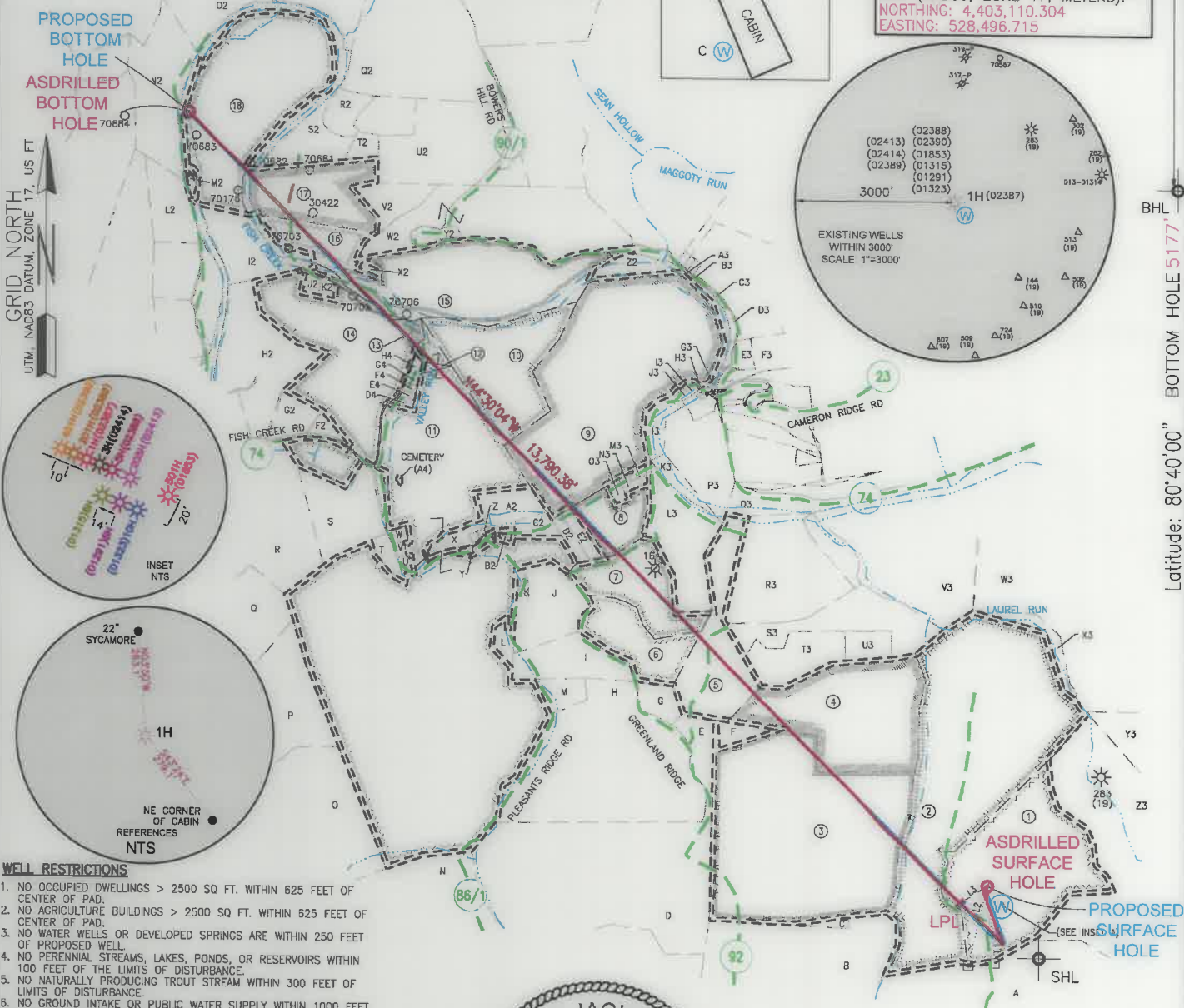
BOTTOM HOLE 160'

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 05°21'35" E	957.03'	SHL TO LANDMARK	30" BLACK OAK FD
L2	S 13°51'54" W	1020.25'	SHL TO LANDMARK	3/4" REBAR FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 58°12'17" W	400.03'	1543.25'	SHL TO LP

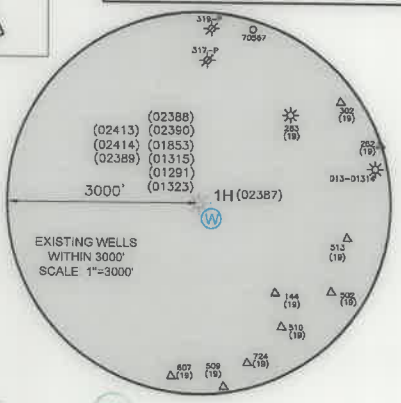
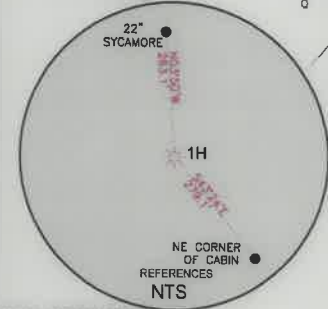
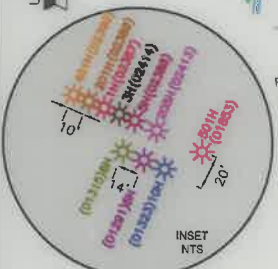
1H SHL TO A 272.2'  
1H SHL TO B 279.1'  
1H SHL TO C 304.2'



SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,400,176.589
	EASTING: 531,546.550
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,400,112.346
	EASTING: 531,442.918
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,403,110.304
	EASTING: 528,496.715



GRID NORTH  
UTM NAD83 DATUM, ZONE 17, US FT



Latitude: 80°40'00" BOTTOM HOLE 5177'

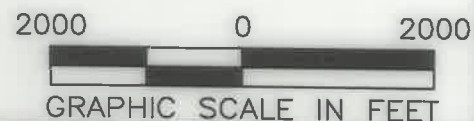
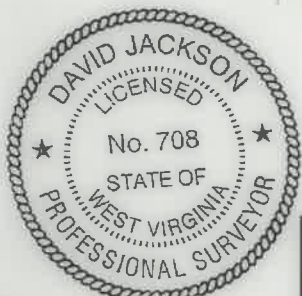
Longitude: 80°37'30" SURFACE HOLE 14845'

WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 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.
- 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

COMPANY: SWN Production Company, LLC

(+) 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)	OE BURGE MSH OPERATOR'S WELL #: 1H API WELL #: 47 051 02387 STATE COUNTY PERMIT
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WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: LAUREL RUN OF FISH CREEK (HUC-10) ELEVATION: 1342.0'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: GLEN EASTON, WV

SURFACE OWNER: MASON DIXON FARMS, LLC ACREAGE: ±66.03

OIL & GAS ROYALTY OWNER: O. E. BURGE ET AL ACREAGE: ±66.03

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: 7,166'

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT RD., SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT RD., SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION W EXISTING WATER WELL S EXISTING SPRING	<b>REVISIONS:</b> — SURVEYED BOUNDARY — DRILLING UNIT — LEASE BOUNDARY — ASDRILLED PATH — PROPOSED PATH
DATE: 05-18-2022 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 TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	MASON DIXON FARMS LLC (S/R)	07-0018-05
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	MASON DIXON FARMS LLC (S)	07-0017-36
3	BAKER DONALD RAY (S)	07-0018-03
4	MASON DIXON FARMS LLC (S)	07-0017-37
5	MASON DIXON FARMS LLC (S)	07-0017-37.5
6	MASON DIXON FARMS LLC (S)	07-0017-40
7	STERN FAMILY FARM LLC (S)	07-0017-39
8	BUZZARD GUY L (S)	07-0017-38.3
9	BUZZARD JOANN (S)	07-0017-3
10	STERN FAMILY FARM LLC (S)	07-0017-2
11	STERN FAMILY FARM LLC (S)	07-0017-1
12	STERN FAMILY FARM LLC (S)	09-0017-26
13	EWING MICHELLE R (S)	09-0017-24
14	MASON J MONT EST (S)	09-0017-17
15	WILLIAMS ROBERT W & DEBRA JEAN (S)	07-0009-5
16	HALL ROBERT L (S)	09-0015-22
17	HALL ROBERT L (S)	09-0015-20
18	BYERS RICHARD W (S)	09-0015-12

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS LLC	07-0018-8.1
B	CROW HOY GLENN ET UX	07-0018-11
C	CROW HOY GLENN ET UX	07-0018-12
D	BAKER DONALD RAY	07-0018-1
E	SCOTT AARON COLE & SAMANTHA	07-0017-41
F	MASON DIXON FARMS LLC	07-0018-2
G	PARKER PETER	07-0017-43.1
H	BAKER DONALD RAY	07-0017-43
I	REECE CHRISTI	07-0017-39.5
J	REECE CHRISTI	07-0017-39.1
K	SIMMONS ROX W & BETH ANN	07-0017-39.9
L	BENLINE RUSSELL G & KELLI	07-0017-1.1
M	SWN PRODUCTION COMPANY LLC	07-0017-1.3
N	YOHO SAMUEL	09-0019-9
O	STERN GARY ET UX	09-0017-31
P	STERN GARY ET UX	09-0017-32
Q	BAKER ROBERT F ET UX	09-0017-33
R	MASON J MONT EST	09-0017-29
S	MASON J MONT EST	09-0017-29.1
T	KIRBY DONNA KAY	07-0017-1.4
U	BAKER CHRISTY	07-0017-1.5
V	OTTO KHRISTOPHER C & HOLLY J	07-0017-1.6
W	OTTO KHRISTOPHER C & HOLLY J	07-0017-1.8
X	FOX AMANDA & CASEY	07-0017-1.9
Y	CRONE JERRY J ET UX	07-0017-39.3
Z	ROMEO NATALE FRANK & AMY F	07-0017-39.2

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A2	STERN JERRY GLENN - LIFE	07-0017-1.7
B2	SIMMONS ROX W II & BETH A	07-0017-39.8
C2	STERN JERRY G ET UX - LIFE	07-0017-1.2
D2	STERN JERRY GLENN ET UX - LIFE	07-0017-38.5
E2	STERN SHAWN GLENN	07-0017-38.6
F2	SCOTT GABRIEL O	09-0017-17.2
G2	MASON J MONT EST	09-0017-17.1
H2	PETTIT JAMES WILLIAM	09-0017-14
I2	BYERS RICHARD W	09-0015-23
J2	VICKERS MARY E EST	09-0017-15
K2	TYLER WILLIAM A II	09-0017-16
L2	VAN DYNE LOGAN R & AMANDA	09-0015-24
M2	HARTLEY PEGGY SUE, PATRICIA P BARNHART & RALPH E CHURCH II	09-0015-19
N2	MILLER MARK RICHARD	09-0015-13
O2	KOTSON ROBERT FRANK ET AL	09-0015-4
P2	BYERS RICHARD W	09-0015-5
Q2	CONSOLIDATION COAL COMPANY MURRAY ENERGY	09-0015-6
R2	TYLER WILLIAM A ET AL	09-0015-10
S2	TYLER WILLIAM A ET AL	09-0015-11
T2	HALL ROBERT L	09-0015-9
U2	ANDRICH THOMAS M JR EST ET UX	09-0015-8
V2	HALL ROBERT L	09-0015-21
W2	DOBBS ADA C ET AL	07-0009-4
X2	POLINSKI DAVID M SR & RHONDA S	09-0017-18
Y2	MASTERS STEVEN D & MONICA M	07-0009-4.1
Z2	ASTON PAUL & SUSAN	07-0009-2
A3	MAGNONE WILLIAM NICHOLAS I & ARLENE C - LIFE	07-0009-8
B3	ASTON PAUL ET UX	07-0009-7.1
C3	ASTON CHAD EVERETT ET UX	07-0009-7
D3	ASTON CHAD EVERETT ET UX	07-0009-6
E3	HAYWARD CHARLES JR & LISA K	07-0009-10.1
F3	RICHMOND BERT KENNETH ET UX	07-0009-10
G3	COLUMBIA GAS TRANSMISSION	07-0017-7
H3	W VA DEPT OF HIGHWAYS	07-0017-7.1
I3	COLUMBIA GAS TRANSMISSION	07-0017-4
J3	W VA DEPT OF HIGHWAYS	07-0017-3.2
K3	COLUMBIA GAS TRANSMISSION	07-0017-5
L3	MASON DIXON FARMS LLC	07-0017-38
M3	BUZZARD GUY L	07-0017-38.1
N3	BUZZARD GUY L	07-0017-38.2
O3	BUZZARD GUY LAMONT	07-0017-38.4
P3	COLUMBIA GAS TRANSMISSION	07-0017-6
Q3	OLDFIELD KAREN K ET AL	07-0017-37.1
R3	WALLACE RODNEY J ET UX	07-0017-37.6
S3	SCOTT AARON COLE & SAMANTHA	07-0017-37.4
T3	SCOTT AARON COLE & SAMANTHA	07-0017-37.8
U3	SCOTT AARON COLE & SAMANTHA	07-0017-37.7
V3	MASON DIXON FARMS LLC	07-0017-35
W3	MASON DIXON FARMS LLC	07-0017-33
X3	WARREN JAMES ROBERT	07-0017-34
Y3	MASON DIXON FARMS LLC	07-0019-1
Z3	MASON DIXON FARMS LLC	07-0018-6
A4	CEMETERY	

<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,176.596 EASTING: 531,546.584
<b>LANDING POINT (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,102.874 EASTING: 531,449.925
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,403,106.270 EASTING: 528,484.612

REVISIONS:	COMPANY:	09/09/2022	
			
	OPERATOR'S	OE BURGE MSH	API
	WELL #:	1H	47-051-02387
	DISTRICT:	COUNTY:	STATE:
	LIBERTY	MARSHALL	WV
			DATE: 05-18-2022
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2