

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

API 47 - 051 - 02388 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 5H
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 4,400,174.240 Easting 531,552.228
Landing Point of Curve Northing 4,400,487.332 Easting 531,775.208
Bottom Hole Northing 4,403,332.094 Easting 529,118.642

Elevation (ft) 1,342.2 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

Date permit issued 8/25/2021 Date drilling commenced 11/19/2021 Date drilling ceased 12/01/2021
Date completion activities began 1/11/2022 Date completion activities ceased 3/25/2022
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 1,188 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:
Sh 8/23/22

09/09/2022

API 47- 051 - 02388 Farm name MASON DIXON FARMS, LLC Well number O E BURGE MSH 5H

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	330	NEW	J-55/54.5		Y: 25 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,760'	NEW	J-55/36#		Y: 60 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	20,498'	NEW	P-110 HP/20#		N
Tubing							
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	323	15.60	1.20	387.60	SURFACE	8
Coal							
Intermediate 1	CLASS A	1,229	16.00	1.12	1,376.48	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,521	15.00	1.29	4542.09	1,774'	24
Tubing							

Drillers TD (ft) 20,498' Loggers TD (ft) 20,498'
 Deepest formation penetrated MARCELUS Plug back to (ft) 20,412'
 Plug back procedure N/A

Kick off depth (ft) 6,425' 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: 36 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 411 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 - 02388 Farm name MASON DIXON FARMS, LLC Well number O E BURGE MSH 5H

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 - 02388 Farm name MASON DIXON FARMS, LLC Well number O E BURGE MSH 5H

PRODUCING FORMATION(S)	DEPTHS		
		TVD	MD
MARCELLUS	7,087'	7,455'	

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,170 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 19,374 mcfpd Oil 233 bpd NGL _____ bpd Water 490 bpd GAS MEASURED BY Estimated Orifice Pilot

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

	0		0		
	SEE	ATTACHMENT	3		

Please insert additional pages as applicable.

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

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

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

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

Please insert additional pages as applicable.

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

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

Hydraulic Fracturing Fluid Product Component Information Disclosure

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Office of Oil and Gas
JUN 7 2022
WV Department of
Environmental Protection

Job Start Date:	1/11/2022
Job End Date:	3/13/2022
State:	West Virginia
County:	Marshall
API Number:	47-051-02388-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	O E BURGE MSH 5
Latitude:	39.75089317
Longitude:	-80.63169685
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,110
Total Base Water Volume (gal):	22,141,964
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	90.45797	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.35616	

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			Water	7732-18-5	85.00000	0.35616	
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Plexslick V996	SWN Well Services	Friction Reducer					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale 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	9.06366	
			Hydrochloric Acid	7647-01-0	15.00000	0.05514	

			Sodium Erythorbate	6381-77-7	100.00000	0.00196	
			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00165	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00027	
			Ethylene glycol	107-21-1	40.00000	0.00023	
			Ethanol	64-17-5	2.50000	0.00009	
			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	
			Isopropyl alcohol	67-63-0	5.00000	0.00003	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	
			1-Octanol	111-87-5	5.00000	0.00003	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00003	
			1-Decanol	112-30-1	5.00000	0.00003	
			Triethyl phosphate	78-40-0	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 5H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	12/29/2021	20,412	20,319	36
2	1/12/2022	20,285	20,106	36
3	1/13/2022	20,073	19,895	36
4	1/14/2022	19,861	19,683	36
5	1/15/2022	19,649	19,471	36
6	1/19/2022	19,438	19,259	36
7	1/22/2022	19,226	19,047	36
8	1/24/2022	19,014	18,835	36
9	1/26/2022	18,802	18,623	36
10	1/28/2022	18,590	18,412	36
11	1/29/2022	18,378	18,200	36
12	1/30/2022	18,166	17,988	36
13	1/31/2022	17,955	17,776	36
14	1/31/2022	17,743	17,564	36
15	2/1/2022	17,531	17,352	36
16	2/2/2022	17,319	17,141	36
17	2/4/2022	17,107	16,929	36
18	2/7/2022	16,895	16,717	36
19	2/8/2022	16,684	16,505	36
20	2/9/2022	16,472	16,293	36
21	2/10/2022	16,260	16,081	36
22	2/10/2022	16,048	15,869	36
23	2/11/2022	15,836	15,658	36
24	2/12/2022	15,624	15,446	36
25	2/12/2022	15,412	15,234	36
26	2/13/2022	15,201	15,022	36
27	2/15/2022	14,989	14,810	36
28	2/16/2022	14,777	14,598	36
29	2/17/2022	14,565	14,386	36
30	2/18/2022	14,353	14,175	36
31	2/18/2022	14,141	13,963	36
32	2/19/2022	13,929	13,751	36
33	2/20/2022	13,718	13,539	36
34	2/20/2022	13,506	13,327	36
35	2/21/2022	13,294	13,115	36
36	2/22/2022	13,082	12,903	36
37	2/22/2022	12,870	12,692	36
38	2/23/2022	12,658	12,480	36
39	2/23/2022	12,446	12,268	36
40	2/24/2022	12,235	12,056	36
41	2/25/2022	12,023	11,844	36
42	2/26/2022	11,811	11,632	36
43	2/27/2022	11,599	11,421	36

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**O E BURGE MSH 5H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	2/28/2022	11,387	11,209	36
45	3/1/2022	11,175	10,997	36
46	3/2/2022	10,964	10,785	36
47	3/3/2022	10,752	10,573	36
48	3/3/2022	10,540	10,361	36
49	3/4/2022	10,328	10,149	36
50	3/4/2022	10,116	9,938	36
51	3/5/2022	9,904	9,726	36
52	3/6/2022	9,692	9,514	36
53	3/6/2022	9,481	9,302	36
54	3/7/2022	9,269	9,090	36
55	3/8/2022	9,057	8,878	36
56	3/8/2022	8,845	8,666	36
57	3/9/2022	8,633	8,455	36
58	3/9/2022	8,421	8,243	36
59	3/10/2022	8,209	8,031	36
60	3/11/2022	7,998	7,819	36
61	3/12/2022	7,786	7,607	36

JUN 7 2022

O E BURGE MSH 5H

ATTACHMENT 2

STIM REPORT

WV Department of
Environmental Protection

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	1/11/2022	77.1	8,369	9,010	3,522	174,400	7,018	0
2	1/12/2022	94.1	16,560	5,544	4,625	304,370	9,847	0
3	1/14/2022	78.7	9,082	4,874	4,889	307,310	11,277	0
4	1/15/2022	96.7	9,205	5,831	4,428	303,870	9,175	0
5	1/19/2022	94.3	8,621	5,380	5,214	301,590	9,461	0
6	1/22/2022	91	8,948	6,217	4,852	304,840	8,892	0
7	1/23/2022	90.9	8,846	6,701	5,062	307,580	9,148	0
8	1/26/2022	76.9	7,511	8,211	5,221	300,740	10,922	0
9	1/27/2022	98.6	8,638	6,167	4,785	301,820	9,149	0
10	1/29/2022	98.9	8,988	6,137	5,321	302,560	9,057	0
11	1/30/2022	86.9	8,023	6,362	5,225	301,780	8,900	0
12	1/31/2022	89.9	8,822	6,245	5,541	302,080	8,816	0
13	1/31/2022	92.7	9,122	5,836	5,659	307,980	8,879	0
14	2/1/2022	92	8,540	6,187	4,752	307,480	8,675	0
15	2/2/2022	95	9,333	5,529	4,510	310,790	9,074	0
16	2/3/2022	90.3	9,411	6,445	5,016	309,190	8,953	0
17	2/7/2022	91.9	9,149	6,283	5,487	306,190	8,978	0
18	2/7/2022	96.3	8,259	6,517	5,164	301,310	8,701	0
19	2/9/2022	99.2	8,677	6,389	5,126	298,740	8,719	0
20	2/9/2022	95.9	8,208	6,240	4,988	306,580	9,153	0
21	2/10/2022	85.3	7,547	6,198	4,981	301,890	8,824	0
22	2/11/2022	99.4	8,540	6,410	5,346	304,920	8,662	0
23	2/12/2022	99.1	8,638	6,359	5,012	286,850	8,278	0
24	2/12/2022	97.6	8,384	7,265	5,011	364,640	8,752	0
25	2/13/2022	93.5	8,700	6,045	5,150	299,880	8,774	0
26	2/15/2022	94.3	6,798	5,426	4,459	303,270	10,933	0
27	2/16/2022	97.3	8,454	6,679	4,568	300,130	8,567	0
28	2/17/2022	97	8,554	6,501	5,373	303,440	8,683	0
29	2/18/2022	99	8,401	6,523	5,351	305,670	8,593	0
30	2/18/2022	95	8,819	6,589	4,790	298,280	8,440	0
31	2/19/2022	95	7,602	6,421	5,023	297,060	8,532	0
32	2/20/2022	99.1	8,798	6,708	5,123	312,700	8,480	0
33	2/20/2022	97	7,763	6,134	5,150	302,860	8,446	0
34	2/21/2022	91.8	7,605	6,490	4,782	305,400	8,859	0
35	2/22/2022	99	7,945	6,452	5,565	305,260	8,147	0
36	2/22/2022	97	7,946	6,938	5,700	305,020	8,411	0
37	2/23/2022	95	7,813	6,220	4,921	306,860	8,392	0
38	2/23/2022	99	8,446	6,425	5,926	305,000	8,159	0
39	2/24/2022	99.8	7,825	6,470	4,881	307,780	8,562	0
40	2/25/2022	95.5	7,641	6,357	4,917	300,240	8,086	0
41	2/26/2022	99.6	8,470	6,865	5,248	312,730	8,244	0
42	2/27/2022	99.8	7,660	5,928	5,033	301,380	8,526	0
43	2/28/2022	96.5	7,770	6,150	4,666	304,300	8,305	0
44	3/1/2022	97	7,718	5,608	4,635	307,240	8,413	0
45	3/2/2022	99.2	8,074	6,304	4,827	310,840	8,486	0
46	3/3/2022	99.8	7,564	6,389	5,316	305,260	8,613	0
47	3/3/2022	99.9	7,657	6,505	4,623	301,220	8,241	0
48	3/4/2022	98	8,263	6,058	5,122	304,100	8,270	0
49	3/4/2022	97.6	7,940	6,477	4,555	302,550	8,134	0
50	3/5/2022	99.2	7,856	6,802	4,533	308,730	8,309	0
51	3/6/2022	98	7,766	5,442	5,102	312,610	8,339	0
52	3/6/2022	99.6	8,089	6,255	4,985	312,280	8,132	0
53	3/7/2022	99.3	7,680	6,507	4,615	308,020	8,247	0

O E BURGE MSH 5H

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
54	3/7/2022	99.4	7,431	6,599	5,000	303,170	8,047	0
55	3/8/2022	98	8,103	6,482	5,050	302,720	8,188	0
56	3/9/2022	98.9	7,573	6,453	4,634	307,900	8,159	0
57	3/9/2022	97.1	7,696	6,306	4,915	310,920	8,218	0
58	3/10/2022	99.6	7,347	6,494	4,872	306,780	8,595	0
59	3/11/2022	99.2	7,346	6,477	4,429	303,120	8,147	0
60	3/11/2022	97.9	7,979	6,037	4,865	309,120	7,934	0
61	3/13/2022	99	7,723	6,143	4,931	300,620	8,271	0

Latitude: 39°47'30" SURFACE HOLE 1882'

Latitude: 39°47'30" BOTTOM HOLE 9825'

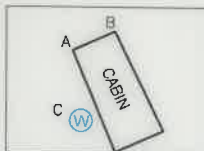
JACKSON SURVEYING INC.

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 04°17'36" E	957.78'	SHL TO LANDMARK	30" BLACK OAK FD
L2	S 14°59'04" W	1017.42'	SHL TO LANDMARK	3/4" REBAR FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 35°27'29" E	1261.08'	2026.19'	SHL TO LP

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,400,174.240	
EASTING: 531,552.228	
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,400,487.332	
EASTING: 531,775.208	
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,403,332.094	
EASTING: 529,118.642	

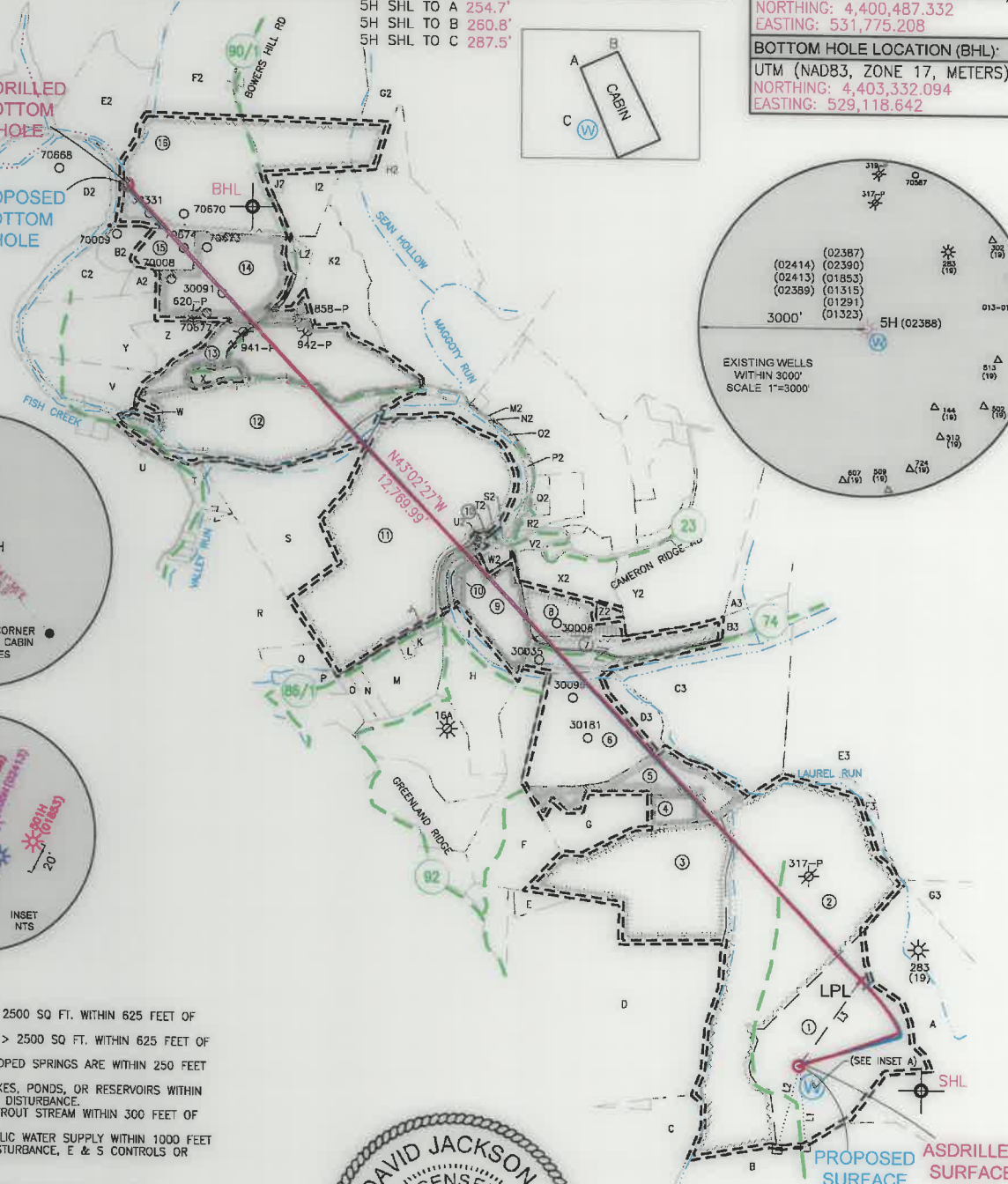
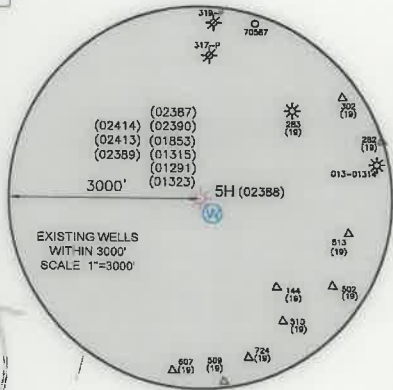
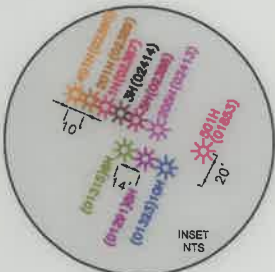
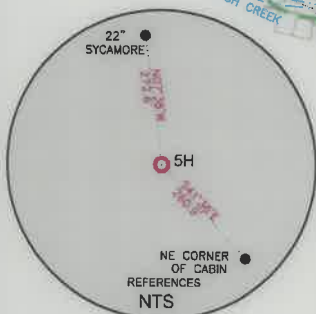
5H SHL TO A 254.7'
5H SHL TO B 260.8'
5H SHL TO C 287.5'



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

ASDRILLED
BOTTOM
HOLE

PROPOSED
BOTTOM
HOLE



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.
3. 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

GRAPHIC SCALE IN FEET

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	OE BURGE MSH
	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 5H
	API WELL #:	47 051 02388
		STATE COUNTY PERMIT

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

WATERSHED: LAUREL RUN OF FISH CREEK (HUC-10) ELEVATION: 1342.2'

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: 7,160' 09/09/2022

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:	<ul style="list-style-type: none"> ○ 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: 05-18-2022 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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Latitude: 80°37'30" BOTTOM HOLE 4457'

SURFACE HOLE 14853'

Longitude: 80°37'30"

**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	MASON DIXON FARMS LLC (S)	07-0017-37
4	SCOTT AARON COLE & SAMANTHA (S)	07-0017-37.4
5	SCOTT AARON COLE & SAMANTHA (S)	07-0017-37.7
6	WALLACE RODNEY J ET UX (S)	07-0017-37.6
7	OLDFIELD KAREN K ET AL (S)	07-0017-37.1
8	BUTLER BENJAMIN ET UX (S)	07-0017-9.3
9	COLUMBIA GAS TRANSMISSION (S)	07-0017-6
10	COLUMBIA GAS TRANSMISSION (S)	07-0017-4
11	BUZZARD JOANN (S)	07-0017-3
12	WILLIAMS ROBERT W & DEBRA JEAN (S)	07-0009-5
13	DOBBS ADA C ET AL (S)	07-0009-4
14	ANDRICH THOMAS MJR EST ET UX (S)	09-0015-8
15	ANDRICH THOMAS MJR EST ET UX (S)	09-0015-8.2
16	CONSOLIDATION COAL COMPANY MURRAY ENERGY (S)	09-0015-6

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS LLC	07-0018-6
B	MASON DIXON FARMS LLC	07-0018-8.1
C	CROW HOY GLENN ET UX	07-0018-11
D	BAKER DONALD RAY	07-0018-3
E	MASON DIXON FARMS LLC	07-0018-2
F	MASON DIXON FARMS LLC	07-0017-37.5
G	SCOTT AARON COLE & SAMANTHA	07-0017-37.8
H	MASON DIXON FARMS LLC	07-0017-38
I	COLUMBIA GAS TRANSMISSION	07-0017-5
J	BUZZARD GUY L	07-0017-38.1
K	BUZZARD GUY L	07-0017-38.2
L	BUZZARD GUY LAMONT	07-0017-38.4
M	BUZZARD GUY L	07-0017-38.3
N	STERN SHAWN GLENN	07-0017-38.6
O	STERN JERRY GLENN ET UX - LIFE	07-0017-38.5
P	STERN JERRY G ET UX - LIFE	07-0017-1.2
Q	STERN JERRY GLENN - LIFE	07-0017-1.7
R	STERN FAMILY FARM LLC	07-0017-1
S	STERN FAMILY FARM LLC	07-0017-2
T	EWING MICHELLE R	09-0017-24
U	MASON J MONT EST	09-0017-17
V	HALL ROBERT L	09-0015-22
W	POLINSKI DAVID M SR & RHONDA S	09-0017-18
X	MASTERS STEVEN D & MONICA M	07-0009-4.1
Y	HALL ROBERT L	09-0015-20
Z	HALL ROBERT L	09-0015-21

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A2	HALL ROBERT L	09-0015-9
B2	TYLER WILLIAM A ET AL	09-0015-10
C2	TYLER WILLIAM A ET AL	09-0015-11
D2	BYERS RICHARD W	09-0015-12
E2	BYERS RICHARD W	09-0015-5
F2	MEYER ANNA E EST	09-0012-35
G2	CONSOLIDATION COAL COMPANY MURRAY ENERGY	09-0012-36
H2	ASTON PAUL & SUSAN	07-0009-2
I2	CONSOLIDATION COAL COMPANY MURRAY ENERGY	09-0015-7
J2	WOOD ROY R SR	09-0015-7.1
K2	CONSOLIDATION COAL COMPANY MURRAY ENERGY	07-0009-3
L2	CONSOLIDATION COAL COMPANY MURRAY ENERGY	09-0015-8.1
M2	MAGNONE WILLIAM NICHOLAS I & ARLENE C - LIFE	07-0009-8
N2	ASTON PAUL ET UX	07-0009-7.1
O2	ASTON CHAD EVERETT ET UX	07-0009-7
P2	ASTON CHAD EVERETT ET UX	07-0009-6
Q2	HAYWARD CHARLES JR & LISA K	07-0009-10.1
R2	RICHMOND BERT KENNETH ET UX	07-0009-10
S2	COLUMBIA GAS TRANSMISSION	07-0017-7
T2	W VA DEPT OF HIGHWAYS	07-0017-7.1
U2	W VA DEPT OF HIGHWAYS	07-0017-3.2
V2	MASON ERIC T	07-0009-12
W2	COLUMBIA GAS TRANSMISSION	07-0017-7
X2	JOBES STEPHEN	07-0017-9
Y2	COTTRELL SAMUEL L	07-0017-10
Z2	MATZ BRETT J	07-0017-9.1
A3	MCCULLEY BETTY TAYLOR ET VIR	07-0017-13
B3	JOHNSON ROBERT & KATHY	07-0017-8
C3	MASON DIXON FARMS LLC	07-0017-35
D3	WALLACE RODNEY J & DIANNA L	07-0017-37.3
E3	MASON DIXON FARMS LLC	07-0017-33
F3	WARREN JAMES ROBERT	07-0017-34
G3	MASON DIXON FARMS LLC	07-0019-1

SURFACE HOLE LOCATION (SHL):



UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,400,174.271
EASTING: 531,552.219

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,400,467.754
EASTING: 531,796.151

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,403,326.500
EASTING: 529,114.497

REVISIONS:	COMPANY:	 		DATE: 05-18-2022			
	OPERATOR'S			OE BURGE MSH	API		
	WELL #:	5H	47-051-02338	DRAWN BY: N. MANO			
	DISTRICT:	LIBERTY	COUNTY:	MARSHALL	STATE:	WV	SCALE:
				DRAWING NO:			
							WELL LOCATION PLAT 2

09/09/2022