

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

API 47 - 051 - 02369 County MARSHALL District LIBERTY
Quad CAMERON 7 1/2, WV Pad Name GLADYS BRIGGS MSH PAD Field/Pool Name VICTORY FIELD WET
Farm name GLADYS R. BRIGGS ESTATE Well Number GLADYS BRIGGS MSH 3H
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 4,401,983.822 Easting 532,900.708
Landing Point of Curve Northing 4,402,054.975 Easting 533,131.975
Bottom Hole Northing 4,405,233.149 Easting 530,630.108

Elevation (ft) 1,382.8 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 3/29/2021 Date drilling commenced 5/28/2021 Date drilling ceased 6/10/2021
Date completion activities began 7/28/2021 Date completion activities ceased 8/29/2021
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 733 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1221 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1087 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

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Reviewed by: [Signature]
11/21/2021
12/03/2021

API 47-051 - 02369 Farm name GLADYS R. BRIGGS ESTATE Well number GLADYS BRIGGS MSH 3H

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	803	NEW	J-55/54.50#		Y, 80 BBLs
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,704	NEW	J-55/36#		Y, 70 BBLs
Intermediate 2	12.25	9.625					
Intermediate 3							
Production	8.75/8.50	5.5	21,054	NEW	P-110 HP/20#		Y, 107 BBLs
Tubing		2.375		NEW	L-80/4.7#		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	909	15.60	1.19	1,081.71	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	1,134	16.00	1.13	1,281.42	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,045	14.50	1.17	4,732.65	SURFACE	24
Tubing							

Drillers TD (ft) 21,054' Loggers TD (ft) 21,054'
 Deepest formation penetrated _____ Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,333'

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

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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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.

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PRODUCING FORMATION(S) DEPTHS
MARCELLUS 7,129' TVD 7,583' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2306 psi Bottom Hole psi DURATION OF TEST hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
25,110 mcfpd 370 bpd _____ bpd 432 bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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	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 ROAD City THE WOODLANDS State TX Zip 77380

Cementing Company SCHLUMBERGER WELLS SERVICES
 Address 1080 US-33 City WESTON State WV Zip 26452

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

Please insert additional pages as applicable.

Completed by BOBBY WILLIS Telephone 832-796-2884
 Signature  Title SENIOR REGULATORY SPECIALIST Date 10/29/2021

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

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12/03/2021

NOV 11 2021

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/28/2021
Job End Date:	8/21/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02369-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	GLADYS BRIGGS MSH 3
Latitude:	39.76714645
Longitude:	-80.61586606
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,151
Total Base Water Volume (gal):	22,826,921
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	90.83717	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.29482	

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HCL	SWN Well Services	Solvent					
				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Plexaid 655	SWN Well Services	Scale Inhibitor					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
PLEXSLICK 930	SWN Well Services	Friction Reducer					
				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control					
				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	8.76730	
			Hydrochloric Acid	7647-01-0	15.00000	0.03728	
			Petroleum Distillates, Hydrotreated	64742-47-8	20.00000	0.02605	
			copolymer of 2- propanamide	69418-26-4	20.00000	0.02605	

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			Tetrakis	55566-30-8	45.00000	0.00477	
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00195	WV Department of Environmental Protection
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00195	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00079	
			Acetic Acid	64-19-7	37.50000	0.00049	
			Diethylenetriamine penta	15827-60-8	10.00000	0.00045	
			Methanol	67-56-1	80.00000	0.00030	
			Citric Acid	77-92-9	22.50000	0.00029	
			Ethanol	64-17-5	2.50000	0.00026	
			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)

**GLADYS BRIGGS MSH 3H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	7/28/2021	20,969	20,876	36
2	7/29/2021	20,842	20,664	36
3	7/29/2021	20,631	20,452	36
4	7/30/2021	20,419	20,241	36
5	7/30/2021	20,208	20,029	36
6	7/30/2021	19,996	19,818	36
7	7/31/2021	19,785	19,602	72
8	7/31/2021	19,573	19,395	36
9	8/1/2021	19,362	19,184	72
10	8/1/2021	19,150	18,972	36
11	8/2/2021	18,939	18,761	36
12	8/2/2021	18,727	18,549	36
13	8/2/2021	18,516	18,338	36
14	8/2/2021	18,304	18,126	36
15	8/3/2021	18,093	17,915	36
16	8/3/2021	17,881	17,703	36
17	8/3/2021	17,670	17,492	36
18	8/4/2021	17,459	17,280	36
19	8/4/2021	17,247	17,069	36
20	8/5/2021	17,036	16,857	36
21	8/5/2021	16,824	16,646	36
22	8/5/2021	16,613	16,434	36
23	8/5/2021	16,401	16,223	36
24	8/6/2021	16,190	16,012	36
25	8/6/2021	15,978	15,800	36
26	8/6/2021	15,767	15,589	36
27	8/7/2021	15,555	15,377	36
28	8/7/2021	15,344	15,166	36
29	8/7/2021	15,132	14,945	72
30	8/9/2021	14,921	14,743	36
31	8/9/2021	14,709	14,531	36
32	8/9/2021	14,498	14,320	36
33	8/10/2021	14,287	14,108	36
34	8/10/2021	14,075	13,897	36
35	8/10/2021	13,864	13,685	36
36	8/11/2021	13,652	13,474	36
37	8/12/2021	13,441	13,263	36
38	8/12/2021	13,229	13,056	36
39	8/12/2021	13,018	12,840	36
40	8/13/2021	12,806	12,628	36
41	8/13/2021	12,595	12,417	36
42	8/13/2021	12,383	12,203	36
43	8/14/2021	12,176	11,994	36
44	8/14/2021	11,964	11,782	36
45	8/15/2021	11,751	11,571	36
46	8/15/2021	11,532	11,359	36
47	8/15/2021	11,322	11,148	36
48	8/16/2021	11,110	10,936	36
49	8/16/2021	10,907	10,725	36
50	8/16/2021	10,687	10,513	36
51	8/17/2021	10,480	10,302	36
52	8/17/2021	10,269	10,090	36
53	8/18/2021	10,057	9,879	36
54	8/18/2021	9,846	9,668	36
55	8/18/2021	9,634	9,456	36
56	8/18/2021	9,423	9,245	36
57	8/19/2021	9,211	9,033	36
58	8/19/2021	9,000	8,822	36
59	8/20/2021	8,788	8,610	36
60	8/21/2021	8,577	8,399	36
61	8/21/2021	8,365	8,187	36

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**GLADYS BRIGGS MSH 3H
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/oth
1	7/28/2021	65.2	8,930	9,379	4,703	177,920	7,101	0
2	7/29/2021	83.33	8,601	6,350	5,144	360,760	10,388	0
3	7/30/2021	83.78	8,699	6,521	4,883	312,900	9,636	0
4	7/30/2021	88.78	8,976	5,735	5,441	311,900	9,143	0
5	7/30/2021	88.44	8,804	6,331	4,621	313,900	9,246	0
6	7/31/2021	97.44	8,573	6,202	5,191	317,640	9,218	0
7	7/31/2021	51.57	8,898	6,329	7,640	12,000	10,501	0
8	8/1/2021	91.67	8,795	6,104	4,236	310,660	9,520	0
9	8/1/2021	69.82	8,396	5,990	5,201	312,180	14,258	0
10	8/1/2021	82.88	8,381	6,109	4,537	319,740	9,173	0
11	8/2/2021	92.78	8,106	6,228	4,864	317,440	9,092	0
12	8/2/2021	95.33	8,090	7,650	5,489	315,680	9,048	0
13	8/2/2021	86.17	8,476	6,472	5,243	313,880	10,659	0
14	8/3/2021	87.89	8,277	6,595	4,979	317,020	9,209	0
15	8/3/2021	91.56	8,915	6,570	4,961	315,500	8,908	0
16	8/3/2021	96	9,118	6,575	4,831	315,840	8,909	0
17	8/4/2021	97.67	8,750	6,345	4,545	311,400	8,846	0
18	8/4/2021	91	8,811	6,300	4,560	316,500	8,854	0
19	8/4/2021	92.89	8,298	6,023	4,641	313,340	9,190	0
20	8/5/2021	93.11	8,390	5,836	4,605	314,740	8,921	0
21	8/5/2021	73	8,658	6,130	4,400	317,220	8,919	0
22	8/5/2021	80	7,988	6,117	4,751	311,780	9,043	0
23	8/6/2021	90	8,474	3,850	3,881	311,020	8,683	0
24	8/6/2021	87.44	8,817	6,222	4,657	309,040	8,703	0
25	8/6/2021	89	8,064	6,146	5,125	312,880	8,586	0
26	8/7/2021	85.89	8,302	6,175	4,482	314,160	8,742	0
27	8/7/2021	93.56	8,229	6,181	4,514	313,360	8,635	0
28	8/7/2021	79	8,015	6,355	4,587	312,320	10,402	0
29	8/8/2021	48	7,706	5,643	5,199	6,800	6,869	0
30	8/9/2021	91	8,099	5,804	4,672	311,240	8,996	0
31	8/9/2021	95.44	8,001	6,302	4,934	315,640	8,542	0
32	8/9/2021	81.22	8,353	6,250	5,116	312,400	8,749	0
33	8/10/2021	96.78	8,352	6,292	4,632	309,680	9,009	0
34	8/10/2021	80.33	8,369	6,204	5,190	315,920	8,753	0
35	8/11/2021	93.67	8,489	6,370	4,945	316,460	9,017	0
36	8/11/2021	88.56	8,182	5,995	5,249	311,440	8,401	0
37	8/12/2021	94.33	8,290	6,332	5,045	310,740	8,618	0
38	8/12/2021	88.56	8,110	5,651	5,052	308,960	8,342	0
39	8/13/2021	99.22	8,027	5,855	4,892	312,980	8,811	0
40	8/13/2021	98.78	8,169	6,286	4,826	312,600	8,520	0
41	8/13/2021	91.56	7,855	6,200	4,548	317,440	8,635	0
42	8/14/2021	74.91	8,459	6,450	4,709	316,720	10,820	0
43	8/14/2021	79.4	8,104	5,850	4,854	300,840	8,572	0
44	8/14/2021	93.22	7,497	5,658	4,501	303,300	8,272	0
45	8/15/2021	99.99	8,124	5,992	4,426	321,430	8,637	0
46	8/15/2021	97.78	8,160	5,880	4,676	325,670	8,677	0
47	8/15/2021	91	7,378	5,700	4,920	303,280	8,014	0
48	8/16/2021	99.33	8,040	6,130	4,462	317,320	8,950	0
49	8/16/2021	92.33	7,392	6,151	4,446	318,660	8,497	0
50	8/16/2021	82.5	6,956	5,605	4,485	248,340	7,281	0
51	8/17/2021	89.44	7,319	5,882	4,630	319,480	8,776	0
52	8/18/2021	94.44	7,430	6,105	4,580	317,540	8,458	0
53	8/18/2021	94.67	7,768	5,893	4,487	322,940	8,599	0
54	8/18/2021	96	7,648	6,004	4,569	320,640	8,814	0
55	8/18/2021	90.67	7,836	5,878	4,599	319,640	8,569	0
56	8/19/2021	90.88	7,980	6,184	4,378	322,240	8,852	0
57	8/19/2021	93.22	8,043	5,649	4,723	245,160	6,989	0
58	8/20/2021	87.31	7,313	5,896	4,236	323,300	9,446	0
59	8/20/2021	81.6	7,674	5,564	4,424	321,640	9,013	0
60	8/21/2021	95.67	7,190	6,114	4,915	328,380	8,442	0
61	8/21/2021	94.89	7,342	5,933	5,141	323,980	8,415	0

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Well Name: Gladys Briggs MSH 3H

47051023690000

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	733.00	733.00	
Top of Salt Water	1221.00	1221.00	NA	NA	
Pittsburgh Coal	1087.00	1087.00	1092.00	1092.00	
Pottsville (ss)	1212.00	1212.00	1224.00	1224.00	
Raven Cliff (ss)	1587.00	1587.00	1727.00	1727.00	
Maxton (ss)	1981.00	1981.00	2221.00	2221.00	
Big Injun (ss)	2221.00	2221.00	2482.00	2481.00	
Rhinestreet (shale)	6650.00	6459.00	6969.00	5761.00	
Cashaqua (shale)	6969.00	5761.00	710.00	6878.00	
Middlesex (shale)	7106.00	6878.00	7234.00	6973.00	
Burket (shale)	7234.00	6973.00	7273.00	6998.00	
Tully (ls)	7273.00	6998.00	7312.00	7022.00	
Mahantango (shale)	7312.00	7022.00	7583.00	7129.00	
Marcellus (shale)	7583.00	7129.00	NA	NA	GAS

Latitude: 39°47'30"

SURFACE HOLE 9,142'

Latitude: 39°50'00"

BOTTOM HOLE 4,838'

JACKSON SURVEYING

INC.

2413 EAST PIKE ST. # 112

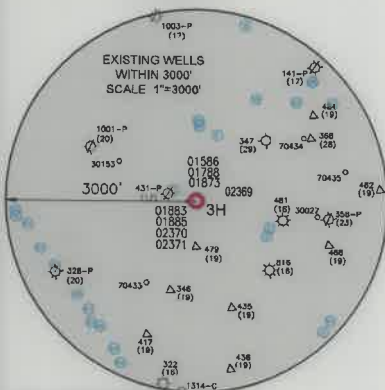
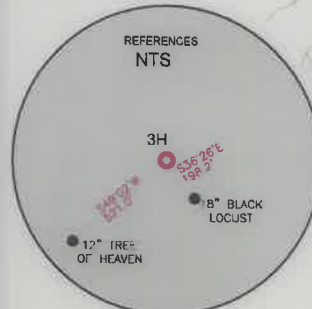
Clarksburg, WV 26302

304-623-5851

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 62°01'50" W	770.83'	SHL TO LANDMARK	CORNER FENCE POST
L2	N 59°09'01" E	1902.07'	SHL TO LANDMARK	FD. 1 1/2" REBAR
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 72°53'56" E	793.85'	2,160.30'	SHL TO LPL
L4	N 34°31'42" W	183.77'	183.77'	AZL1 TO AZL2

SURFACE HOLE LOCATION (SHL)	
UTM (NAD83, ZONE 17, METERS):	
NORTHING:	4,401,983.822
EASTING:	532,900.708
LANDING POINT LOCATION (LPL)	
UTM (NAD83, ZONE 17, METERS):	
NORTHING:	4,402,054.975
EASTING:	533,131.975
AZIMUTH POINT LOCATION (AZL1)	
UTM (NAD83, ZONE 17, METERS):	
NORTHING:	4,404,284.494
EASTING:	531,257.119
AZIMUTH POINT LOCATION (AZL2)	
UTM (NAD83, ZONE 17, METERS):	
NORTHING:	4,404,330.625
EASTING:	531,225.380
BOTTOM HOLE LOCATION (BHL)	
UTM (NAD83, ZONE 17, METERS):	
NORTHING:	4,405,233.149
EASTING:	530,630.108

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



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.

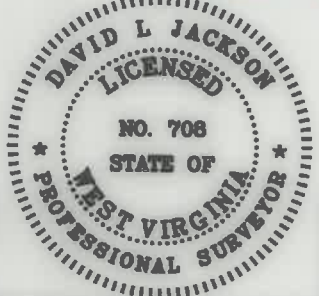
NOTES ON SURVEY

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



2000 0 2000

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

PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

GLADYS BRIGGS MSH

OPERATOR'S WELL #: 3H

API WELL #: 47 051 02369

STATE COUNTY PERMIT

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

WATERSHED: FISH CREEK (HUC-10) ELEVATION: 1382.8'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: CAMERON 7 1/2', WV

SURFACE OWNER: GLADYS R. BRIGGS ESTATE ACREAGE: ±121.429

OIL & GAS ROYALTY OWNER: GLADYS R. BRIGGS ESTATE ACREAGE: ±121.429

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: 12/03/2021 TMD

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

ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

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



LEGEND:	REVISIONS:	DATE:
● PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	10-25-2021
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	
LPL ⊙ LANDING POINT LOCATION	— LEASE BOUNDARY	
⊙ EXISTING WATER WELL	— ASDRILLED PATH	
⊙ EXISTING SPRING	— PROPOSED PATH	
	AZL ⊙ AZIMUTH POINT LOCATION	
		DRAWN BY: N. MANO
		SCALE: 1" = 2000'
		DRAWING NO:
		WELL LOCATION PLAT

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BRIGGS GLADYS R EST (S/R)	07-16-02
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX (S)	07-10-08
3	BUZZARD DONALD G ET UX (S)	07-10-07
4	ANDERSON ALVIN RICKEY ET AL(S)	07-10-06
5	ASTON PAUL & SUSAN (S)	07-09-26
6	NOULLET BENJAMIN R & CARLA J (S)	07-10-1.1
7	CLARK CHARLES R & WHIPKEY MARILYN V (S)	07-10-01
8	CLARK CHARLES R & WHIPKEY MARILYN V (S)	07-09-28.2
9	HINERMAN MARK P & SHELLI W DANNER (S)	07-09-25
10	DANAHEY SHAWN T SR & SHAWN T II (S)	07-08-09
11	DOBBS GARY L (S)	07-09-24
12	DOBBS JOHN ALFRED & LEORA - LIFE (S)	07-08-08
13	DOBBS JOHN ALFRED & LEORA - LIFE (S)	07-08-04
14	DOBBS JOHN ALFRED & LEORA - LIFE	07-08-05
15	MARSHALL COUNTY COAL RESOURCES, INC (S)	09-12-14

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BRIGGS JACK J	07-16-05
B	MASON DIXON FARMS LLC	07-16-06
C	MASON DIXON FARMS LLC	07-17-19.1
D	MASON DIXON FARMS LLC	07-17-19
E	SIMMS ROBERT S & SHEILA D	07-17-18
F	MCCULLEY BETTY TAYLOR ET VIR	07-17-17
G	MCCULLEY BETTY TAYLOR ET VIR	07-17-14
H	MCCULLEY BETTY TAYLOR ET VIR	07-09-34
I	MCCULLEY BETTY TAYLOR ET VIR	07-09-33
J	BERNAS JOSEPH C	07-09-32
K	BUZZARD DONALD G ET UX	07-09-28
L	STERN DONALD G	07-09-28.1
M	BLAKE NANCY J IRREVOCABLE TR	07-09-28.3
N	MT ZION CHURCH OF GOD	07-09-27
O	BUZZARD DONALD G & LENORA L	07-09-28.4
P	COTTRELL KEVIN L	07-09-29
Q	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	07-09-20.1
R	ASTON PAUL & SUSAN	07-09-21
S	DOBBS JOHN ALFRED & LEORA - LIFE	07-09-23
T	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	07-09-22
U	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	07-08-07
V	KELLEY ELIZABETH J	09-12-17
W	WHIPKEY DAVID L & DAVID MATTHEW	09-12-12
X	WHIPKEY DAVID L & DAVID MATTHEW	09-12-15
Y	LATTER DAY SAINTS CHURCH	09-09-15
Z	KERNS DANNY R & FRANCES V ESTS	09-09-14
A2	KERNS DANNY R & FRANCES V ESTS	09-09-13
B2	KERNS DANNY R & FRANCES V ESTS	07-08-01
C2	KERNS DANNY R & FRANCES V ESTS	07-08-02
D2	STERN BLAINE E JR	07-08-12
E2	FIFE HOWARD C - LIFE - DOWNING STEVEN D	07-08-9.1
F2	GRAHAM WAYNE E JR ET UX	07-07-04
G2	CLARK CHARLES R & WHIPKEY MARILYN V	07-10-04
H2	SCHWING RICKY	07-10-02
I2	ANDERSON JACKIE L & ALVIN R	07-10-6.1
J2	STERN PAUL F	07-10-03
K2	CLARK CHARLES R & WHIPKEY MARILYN V	07-10-05
L2	CLARK CHARLES R & WHIPKEY MARILYN V	07-10-11
M2	CLARK JAMES M	07-10-09
N2	LEMASTERS VINCENT E	07-10-24
O2	YEATER PRESTON & HEATHER L	07-16-29.4
P2	BRIGGS JACK	07-16-2.1
Q2	LEMASTERS VINCENT E	07-16-01
R2	BRIGGS PATTY K	07-16-2.2
S2	YEATER PRESTON A ET UX	07-16-29.2
T2	BRIGGS GLADYS R EST	07-16-03

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,401,983.741
EASTING: 532,900.810
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,402,044.863
EASTING: 533,145.562
AZIMUTH POINT LOCATION (AZL1):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,404,211.273
EASTING: 531,316.106
AZIMUTH POINT LOCATION (AZL2):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,404,292.822
EASTING: 531,255.024
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,405,234.207
EASTING: 530,632.228

REVISIONS:	COMPANY:	 		12/03/2021
	OPERATOR'S	GLADYS BRIGGS MSH	API#	DATE: 10-25-2021
	WELL #:	3H	47-051-02369	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A
	LIBERTY	MARSHALL	WV	DRAWING NO:
				WELL LOCATION PLAT 2

12/03/2021