

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

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API 47-051-02417 County MARSHALL District SAND HILL
Quad MOUNDSVILLE Pad Name BETTY SCHAFFER MSH PAD Field/Pool Name PANHANDLE FIELD WET
Farm name ROY A. SCHAFFER, JR. & EDWARD J. SCHAFFER Well Number BETTY SCHAFFER 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 4,426,824.225 Easting 531,116.536
Landing Point of Curve Northing 4,426,792.769 Easting 531,097.315
Bottom Hole Northing 4,431,326.514 Easting 529,079.846

Elevation (ft) 848.4' 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 11/29/2021 Date drilling commenced 1/23/2022 Date drilling ceased 2/08/2022
Date completion activities began 3/20/2022 Date completion activities ceased 4/24/2022
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 280' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 802' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 352' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

09/09/2022

API 47-051 - 02417 Farm name ROY A. SCHAFER, JR. & EDWARD J. SCHAFER Well number BETTY SCHAFER 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	136'	NEW	J-55/94#		Y
Surface	17.5	13.375	376'	NEW	J-55/54.5#	206.0/164.5	Y; 26 BBLS
Coal	SEE SURFACE CSG						
Intermediate 1	12.25	9.625	1,720'	NEW	J-55/36#		Y; 55 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	22,712'	NEW	P-110/20#		N
Tubing		2.875	6,419'		P-110/6.50#		
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	445	15.6	1.20	534	SURFACE	8
Coal	SEE SURFACE CSG						
Intermediate 1	CLASS A	689	15.6	1.19	819.91	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,324	15.0	1.29	5,577.96	SURFACE	24
Tubing							

Drillers TD (ft) 22,755' Loggers TD (ft) 22,755'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 22,622'
 Plug back procedure N/A
5,118' MD

Kick off depth (ft) 5,118' 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: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 455 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 _____

API 47- 051 - 02417

Farm name ROY A. SCHAFFER, JR. & EDWARD J. SCHAFFER

Well number BETTY SCHAFFER MSH 3H

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.

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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 - 02417 Farm name ROY A. SCHAFER, JR. & EDWARD J. SCHAFER Well number BETTY SCHAFER MSH 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>5,972'</u> TVD	<u>6,310'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,821 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 3,052 mcfpd Oil 348 bpd NGL _____ bpd Water 850 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	
	<u>0</u>		<u>0</u>		
	<u>SEE</u>	<u>ATTACHMENT</u>	<u>3</u>		

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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 [Signature] Title SR. REGULATORY ANALYST Date 6/15/2022

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

Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	3/20/2022
Job End Date:	4/10/2022
State:	West Virginia
County:	Marshall
API Number:	47-051-02417-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	BETTY SCHAFER MSH 3
Latitude:	39.99102081
Longitude:	-80.63551390
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,913
Total Base Water Volume (gal):	21,761,722
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	88.61840	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.19498	

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			Water	7732-18-5	85.00000	0.19498	
			Water	7732-18-5	85.00000	0.19498	
HCL	SWN Well Services	Solvent					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
PLEXSLICK 930	SWN Well Services	Friction Reducer					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
Sand	SWN Well Services	Proppant					
				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	11.11792	
			Hydrochloric Acid	7647-01-0	15.00000	0.02484	

			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00230	
			Sodium Erythorbate	6381-77-7	100.00000	0.00089	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00038	
			Ethanol	64-17-5	2.50000	0.00013	
			Ethylene glycol	107-21-1	40.00000	0.00010	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00003	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00003	
			Cinnamaldehyde	104-55-2	10.00000	0.00003	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00001	
			Isopropyl alcohol	67-63-0	5.00000	0.00001	
			2-Butoxyethanol	111-76-2	5.00000	0.00001	
			Triethyl phosphate	78-40-0	5.00000	0.00001	
			1-Octanol	111-87-5	5.00000	0.00001	
			1-Decanol	112-30-1	5.00000	0.00001	

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* 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)

**BETTY SCHAFFER MSH 3H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	3/13/2022	22,622	22,529	36
2	3/20/2022	22,495	22,317	36
3	3/21/2022	22,284	22,106	36
4	3/21/2022	22,072	21,894	36
5	3/22/2022	21,861	21,683	36
6	3/22/2022	21,650	21,472	36
7	3/22/2022	21,438	21,260	36
8	3/23/2022	21,227	21,049	36
9	3/23/2022	21,016	20,838	36
10	3/24/2022	20,804	20,626	36
11	3/24/2022	20,593	20,415	36
12	3/24/2022	20,382	20,204	36
13	3/25/2022	20,170	19,992	36
14	3/25/2022	19,959	19,781	36
15	3/25/2022	19,748	19,569	36
16	3/26/2022	19,536	19,358	36
17	3/26/2022	19,325	19,147	36
18	3/26/2022	19,114	18,935	36
19	3/27/2022	18,902	18,724	36
20	3/27/2022	18,691	18,513	36
21	3/29/2022	18,480	18,301	36
22	3/29/2022	18,268	18,090	36
23	3/29/2022	18,057	17,879	36
24	3/30/2022	17,846	17,667	36
25	3/30/2022	17,634	17,456	36
26	3/30/2022	17,423	17,245	36
27	3/31/2022	17,212	17,033	36
28	3/31/2022	17,000	16,822	36
29	3/31/2022	16,789	16,611	36
30	3/31/2022	16,578	16,399	36
31	4/1/2022	16,366	16,188	36
32	4/2/2022	16,155	15,977	36
33	4/2/2022	15,944	15,765	36
34	4/2/2022	15,732	15,554	36
35	4/3/2022	15,521	15,343	36
36	4/3/2022	15,310	15,131	36
37	4/3/2022	15,098	14,920	36
38	4/3/2022	14,887	14,709	36
39	4/4/2022	14,675	14,497	36
40	4/4/2022	14,464	14,286	36
41	4/5/2022	14,253	14,075	36
42	4/5/2022	14,041	13,863	36
43	4/6/2022	13,830	13,652	36

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**BETTY SCHAFFER MSH 3H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	4/6/2022	13,619	13,441	36
45	4/6/2022	13,407	13,229	36
46	4/6/2022	13,196	13,018	36
47	4/7/2022	12,985	12,807	36
48	4/7/2022	12,773	12,595	36
49	4/7/2022	12,562	12,384	36
50	4/7/2022	12,351	12,173	36
51	4/7/2022	12,139	11,961	36
52	4/8/2022	11,928	11,750	36
53	4/8/2022	11,717	11,539	36
54	4/8/2022	11,505	11,327	36
55	4/8/2022	11,294	11,116	36
56	4/9/2022	11,083	10,905	36
57	4/9/2022	10,871	10,693	36
58	4/9/2022	10,660	10,482	36
59	4/9/2022	10,449	10,271	36
60	4/9/2022	10,237	10,059	36
61	4/9/2022	10,026	9,848	36
62	4/10/2022	9,815	9,637	36
63	4/10/2022	9,603	9,425	36

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BETTY SCHAFER 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/othe
1	3/20/2022	84.3	9,033	6,038	4,586	198,130	5,809	0
2	3/20/2022	49.2	5,017	5,030	3,963	351,490	11,277	0
3	3/21/2022	90.2	8,517	5,285	5,192	370,000	9,256	0
4	3/21/2022	85.5	8,673	5,302	4,132	357,210	10,765	0
5	3/22/2022	99.6	9,625	5,580	5,409	372,710	9,685	0
6	3/22/2022	86.9	9,173	6,446	4,587	353,310	8,291	0
7	3/23/2022	92.1	9,980	6,443	4,758	350,760	8,639	0
8	3/23/2022	90.2	9,262	6,108	3,565	377,730	8,638	0
9	3/24/2022	95.1	9,414	5,401	5,006	350,410	8,269	0
10	3/24/2022	94.1	9,356	5,558	5,274	370,980	8,682	0
11	3/24/2022	88.5	9,449	6,971	4,830	346,790	8,434	0
12	3/25/2022	98.8	9,647	6,937	4,659	353,330	8,479	0
13	3/25/2022	98	9,537	6,442	5,136	373,270	8,453	0
14	3/25/2022	98.7	9,875	6,525	4,852	375,190	8,577	0
15	3/25/2022	94	9,372	6,538	4,209	357,230	10,446	0
16	3/26/2022	95.3	9,510	5,604	4,164	349,400	8,332	0
17	3/26/2022	94	9,184	6,650	4,364	346,648	9,613	0
18	3/27/2022	95.4	9,597	6,684	4,350	355,960	8,497	0
19	3/27/2022	97.3	9,372	8,507	5,742	374,370	8,488	0
20	3/28/2022	86.1	9,050	6,556	4,732	375,620	10,687	0
21	3/29/2022	87.3	9,115	4,552	4,360	353,940	8,096	0
22	3/29/2022	88.3	8,393	5,562	5,446	379,380	8,512	0
23	3/29/2022	87.3	9,327	5,200	4,356	352,290	7,708	0
24	3/30/2022	92.2	8,651	5,628	4,553	374,800	8,278	0
25	3/30/2022	94.4	9,148	4,620	4,438	377,590	7,989	0
26	3/30/2022	96.4	8,952	6,281	4,621	354,580	7,877	0
27	3/31/2022	95.4	8,951	5,868	4,865	354,960	7,877	0
28	3/31/2022	95.4	8,925	5,730	5,094	376,960	7,939	0
29	3/31/2022	96.8	8,855	5,051	4,678	353,760	8,302	0
30	4/1/2022	86.2	9,007	5,163	4,701	348,030	7,641	0
31	4/2/2022	92.5	8,811	5,966	4,915	383,930	8,208	0
32	4/2/2022	95.8	8,551	4,943	5,201	376,860	8,235	0
33	4/2/2022	98.9	8,884	6,379	4,481	353,080	7,818	0
34	4/3/2022	96.8	8,852	3,060	4,500	354,160	7,601	0
35	4/3/2022	96.6	8,520	5,804	4,505	377,760	8,253	0
36	4/3/2022	92.4	8,758	5,017	5,741	354,710	7,778	0
37	4/3/2022	94.9	8,669	4,921	4,420	376,960	7,911	0
38	4/4/2022	97.9	8,765	5,855	5,462	349,000	7,725	0
39	4/4/2022	92.2	8,564	6,733	4,620	377,060	8,090	0
40	4/5/2022	99.8	8,645	5,743	4,520	357,480	7,884	0
41	4/5/2022	99.3	8,568	5,884	4,485	375,060	8,191	0
42	4/5/2022	99.5	8,799	5,097	4,786	377,420	8,158	0
43	4/6/2022	95	7,860	4,565	4,652	350,920	8,039	0
44	4/6/2022	95	8,715	4,672	4,685	352,990	7,699	0
45	4/6/2022	95.1	8,063	5,537	4,504	360,730	7,719	0
46	4/6/2022	96.9	8,569	5,526	4,770	371,540	7,717	0
47	4/7/2022	99.9	8,587	4,550	4,782	348,650	7,662	0
48	4/7/2022	99.9	8,423	4,394	4,578	345,690	7,623	0
49	4/7/2022	99.4	8,354	6,841	4,485	375,940	8,197	0
50	4/7/2022	98.9	8,261	5,814	4,412	375,500	7,717	0
51	4/7/2022	99.9	8,149	5,406	4,300	381,560	7,744	0
52	4/8/2022	82.4	7,401	4,959	4,300	373,850	8,029	0
53	4/8/2022	99.7	8,388	6,791	4,852	358,460	7,717	0

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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	4/8/2022	96.7	8,050	4,859	4,400	374,180	8,124	0
55	4/8/2022	97.6	7,860	4,289	4,454	374,810	7,845	0
56	4/9/2022	99.9	7,808	5,625	4,688	374,060	7,536	0
57	4/9/2022	99.9	7,848	6,757	4,654	378,900	7,684	0
58	4/9/2022	99.7	8,190	6,542	4,520	354,180	7,567	0
59	4/9/2022	99.3	8,421	6,507	4,620	349,370	7,515	0
60	4/9/2022	98.9	8,084	5,688	4,699	372,880	7,793	0
61	4/9/2022	96.9	7,766	7,458	4,655	373,140	8,204	0
62	4/10/2022	99.9	7,371	4,487	4,885	379,800	7,754	0
63	4/10/2022	99.4	6,860	6,088	5,006	355,980	7,768	0

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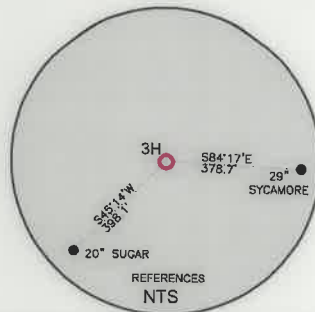
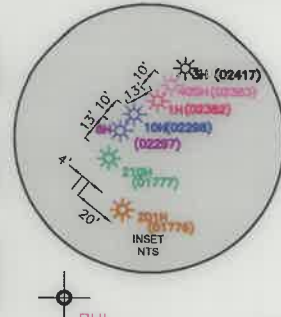
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JACKSON SURVEYING INC.

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

Latitude: 40°00'00" SURFACE HOLE 2946'
 Latitude: 40°02'30" BOTTOM HOLE 9567'

GRID NORTH
 UTM NAD83 DATUM, ZONE 17, US FT



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,824.225 EASTING: 531,116.536
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,792.769 EASTING: 531,097.315
AZIMUTH POINT LOCATION-1 (AZL1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,990.304 EASTING: 529,672.442
AZIMUTH POINT LOCATION-2 (AZL2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,067.666 EASTING: 529,641.886
AZIMUTH POINT LOCATION-3 (AZL3):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,380.519 EASTING: 529,529.329
AZIMUTH POINT LOCATION-4 (AZL4):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,458.783 EASTING: 529,500.233
AZIMUTH POINT LOCATION-5 (AZL5):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,509.404 EASTING: 529,477.586
AZIMUTH POINT LOCATION-6 (AZL6):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,558.178 EASTING: 529,451.840
AZIMUTH POINT LOCATION-7 (AZL7):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,775.270 EASTING: 529,327.405
AZIMUTH POINT LOCATION-8 (AZL8):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,849.592 EASTING: 529,290.070
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,431,326.514 EASTING: 529,079.846

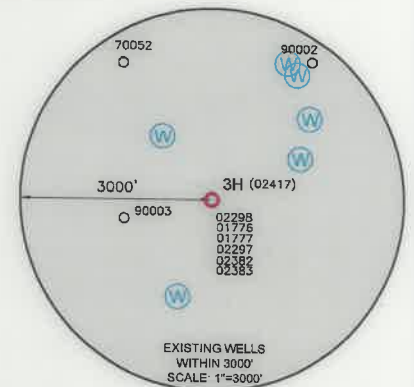
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,823.710 EASTING: 531,116.077
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,800.469 EASTING: 531,089.849
AZIMUTH POINT LOCATION-1 (AZL1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,002.156 EASTING: 529,667.323
AZIMUTH POINT LOCATION-2 (AZL2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,068.097 EASTING: 529,641.181
AZIMUTH POINT LOCATION-3 (AZL3):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,378.496 EASTING: 529,532.492
AZIMUTH POINT LOCATION-4 (AZL4):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,469.891 EASTING: 529,494.544
AZIMUTH POINT LOCATION-5 (AZL5):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,511.112 EASTING: 529,474.619
AZIMUTH POINT LOCATION-6 (AZL6):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,559.408 EASTING: 529,449.418
AZIMUTH POINT LOCATION-7 (AZL7):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,777.895 EASTING: 529,326.748
AZIMUTH POINT LOCATION-8 (AZL8):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,851.020 EASTING: 529,290.078
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,431,324.363 EASTING: 529,079.790

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 76°51'46" W	819.35'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	S 56°53'57" E	1706.53'	SHL TO LANDMARK	FD. 5/8" REBAR
L5	N 19°47'15" W	1090.83'	AZL2 TO AZL3	FD. 5/8" REBAR
L7	N 24°06'09" W	181.94'	AZL4 TO AZL5	FD. 5/8" REBAR
L9	N 29°49'16" W	820.95'	AZL6 TO AZL7	FD. 5/8" REBAR
L11	N 23°47'15" W	1709.97'	AZL8 TO BHL	FD. 5/8" REBAR

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 31°25'37" W	120.94'	1554.65'	SHL TO LPL
L4	N 21°33'11" W	272.89'	272.97'	AZL1 TO AZL2
L6	N 20°23'37" W	273.94'	273.96'	AZL3 TO AZL4
L8	N 27°49'42" W	180.95'	180.97'	AZL5 TO AZL6
L10	N 26°40'20" W	272.88'	272.98'	AZL7 TO AZL8

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.

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



COMPANY:



(+) 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	OPERATOR'S WELL #: 3H
	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	API WELL #: 47 051 02417 STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK (HUC-10) ELEVATION: 848.4'

DISTRICT: SAND HILL COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE, WV

SURFACE OWNER: ROY A. SCHAFFER JR. & EDWARD J. SCHAFFER ACREAGE: ±205.06

OIL & GAS ROYALTY OWNER: ROY A. SCHAFFER JR. & EDWARD J. SCHAFFER ACREAGE: ±205.06

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: 6,000 09/09/2020

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

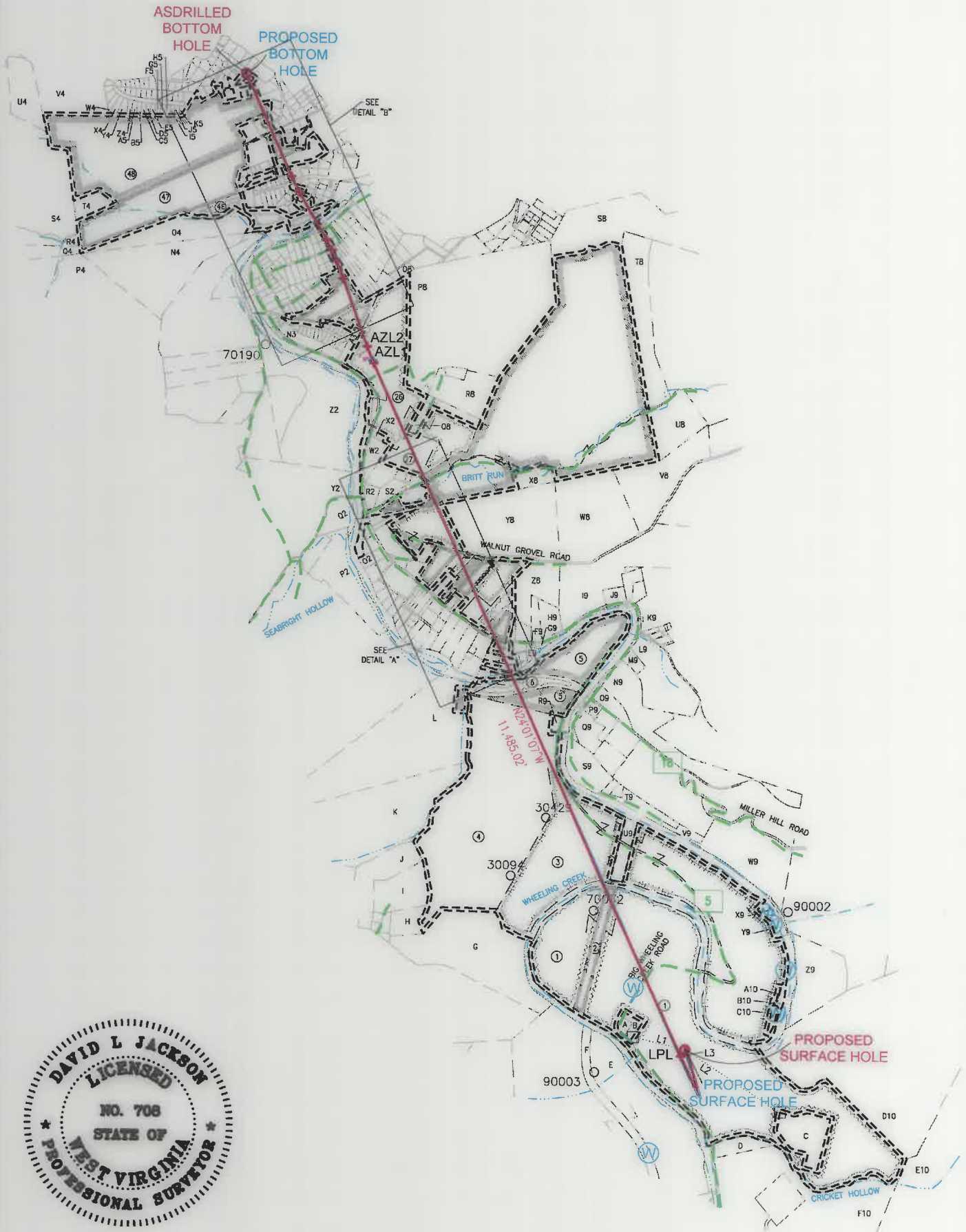
LEGEND:	○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION (W) EXISTING WATER WELL (S) EXISTING SPRING	— SURVEYED BOUNDARY — DRILLING UNIT — LEASE BOUNDARY — ASDRILLED PATH — PROPOSED PATH	REVISIONS: DATE: 06-13-2022 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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Longitude: 80°37'30"

Longitude: 80°37'30" SURFACE HOLE 3271'

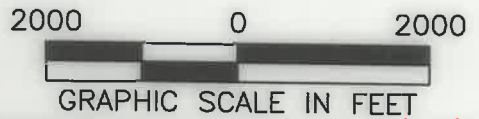
BOTTOM HOLE 3646'



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



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.

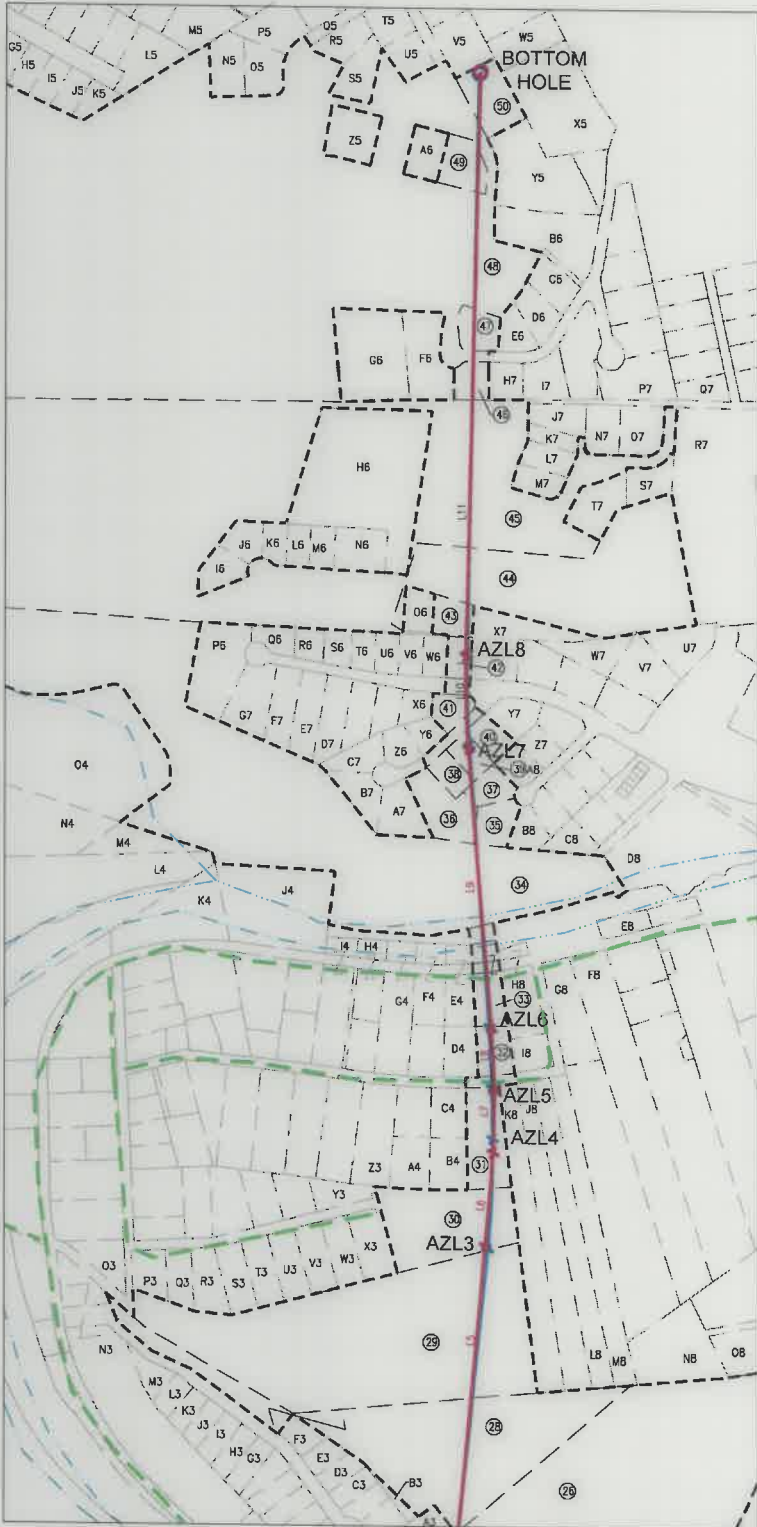
P.S. 708 *David L Jackson*



REVISIONS:	COMPANY:	 		DATE: 06-13-2022	
	OPERATOR'S	BETTY SCHAFER MSH	API #	DATE: 06-13-2022	
	WELL #:	3H	47-051-02417	DRAWN BY: N. MANO	
	DISTRICT:	SAND HILL	COUNTY:	MARSHALL	SCALE: 1" = 2000'
			STATE:	WV	DRAWING NO:
				WELL LOCATION PLAT 2	

**JACKSON SURVEYING
INC.**

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



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

09/09/2022


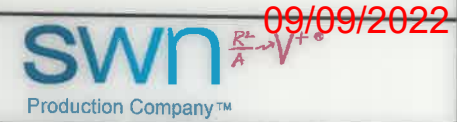
REVISIONS:	COMPANY:	SWN Production Company, LLC		SWN Production Company™
	OPERATOR'S	BETTY SCHAFER MSH	API #	DATE: 06-13-2022
	WELL #:	3H	47-051-02417	DRAWN BY: N. MANO
	DISTRICT:	SAND HILL	COUNTY:	SCALE: N/A
			MARSHALL	DRAWING NO:
			STATE:	WV
				WELL LOCATION PLAT 3

**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	SCHAFER ROY A JR & SCHAFER EDWARD J (S/R)	12-0009-22
2	SCHAFER ROY A JR & SCHAFER EDWARD J (S)	12-0009-24
3	GRAY JOHN ALVIN (S)	13-0003-14
4	HART JOHN J AND HART RENEE A (S)	13-0003-11
5	MAAS BRIAN J & AMY C - TRUST (S)	13-0003-10
6	MAAS BRIAN J & AMY C - TRUST (S)	13-0003-08
7	MALARSKI PETE E ET UX (S)	12-0018-34
8	MATTUCCI MARK A (S)	12-0018-29
9	GREENE JANNELLE R (S)	12-0018-30
10	FERRERA THOMAS JR & SHAWNA (S)	12-0018-31.1
11	GRIFFITH JOHN W & BARBARA J (S)	12-0018-32
12	GRIFFITH THOMAS A (S)	12-0001-37
13	STEGMAN MATTHEW D ET UX (S)	12-0018-25
14	ESTEP DOUGLAS J & LINDA R (S)	12-0001-38
15	SLIGAR NOEL W & CHRISTA M (S)	12-0001-39.2
16	MCCULLEY JOSEPH DANIEL ET UX (S)	12-0001-39.1
17	LITTELL MICHHELLE LYNN & SLIGAR NOEL WOODROW (S)	12-0001-39
18	ROMAN JEWELL L (S)	12-0001-40.1
19	EARNEST ALLEN DOUGLAS (S)	12-0001-40
20	HENRY LORI MYLES (S)	12-0001-41
21	HENRY LORI MYLES (S)	12-0001-42.1
22	KIMPEL TIM W ET UX (S)	12-0001-42
23	MARPLE JEFFREY J & BARBARA J (S)	12-0001-32.1
24	HIGGINS CONSTANCE L - LIFE (S)	12-0001-7.3
25	COFFIELD MICHAEL L & TYLENE R (S)	12-0001-10
26	SLIGAR KAREN SCHENK (S)	12-0001-5
27	SLIGAR KAREN SCHENK (S)	12-0001.5.2
28	STACEY VILLAGE LTD PARTNERSHIP (S)	16-0002-1.1
29	MERINAR KENNETH LEE, MERINAR JAMES MARTIN, MERINAR JEFFREY THOMAS & MERINAR STANLEY JOSEPH (S)	16-0001-86
30	EBERHARD CAMERON JACOB (S)	16-0001-75
31	CALDWELL WILLIAM B & CRYSTAL K (S)	16-0001-59
32	CATLETT HAROLD J (S)	16-0001-23
33	CATLETT HAROLD J (S)	16-0001-22
34	PERONI CONSTRUCTION INC (S)	13-0002-17
35	DORAN ROBERT F ET UX (S)	16-02CC-10
36	DOYLE JOHN J & TAMMY R (S)	13-02CC-20
37	DORAN ROBERT F ET UX (S)	16-02CC-11
38	KRAMER KATHLEEN S (S)	13-02CC-19
39	SOUTH RONALD L & LORI A (S)	13-02CC-18
40	BELBY PATRICK H (S)	13-02CC-15
41	EBELING GLENNA MAE (S)	13-02CC-16
42	CLAYTON GREGORY P & DENISE (S)	16-02CC-41
43	SCHUTZ JOHN A & CYNTHIA L (S)	10-0W96-39.8
44	PERONI CONSTRUCTION INC (S)	10-0W96-39.2
45	PERONI CONSTRUCTION INC (S)	10-W95-112
46	BONACCI BRIAN F (S)	10-W95-213
47	DUNLEVY RICHARD B & JENNIFER L (S)	10-W95-215
48	C J RYAN NC (S)	10-W95-109
49	WHARTON PETER R AND WHARTON CHRISTINE L (S)	P/O 10 W95010900000000
50	CONTRAGUERRA ROBERT C SR & JODY A (S)	10-W95-109.13

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	SCHAFER ROY A JR & SCHAFER EDWARD J	12-0009-23
B	SCHAFER ROY A JR & SCHAFER EDWARD J	12-0009-22.1
C	CONSOLIDATION COAL COMPANY;MURRAY ENERGY C/O LAND DEPT	12-0009-22.2
D	ROMAN EUGENE M	12-0010-01
E	HOGG THOMAS S. & DONN W. ET AL	13-0008-3
F	HOGG THOMAS S. & DONN W. ET AL	13-0008-4
G	HART JOHN J & RENEE A	13-0008-4.1
H	BLACK TERRY J	13-0003-12.7
I	LILLEY DEANNA BLACK & MICHAEL	13-0003-12.11
J	BLACK DONNA M	13-0003-12.12
K	BONACCI FRANK A	13-0003-5.5
L	BONACCI BRIAN F	13-0003-5.1
M	MCADAMS ROBERT E & JODY L	12-0018-27.1
N	MATTUCCI MARK A	12-0018-28
O	MATTUCCI MARK A	12-0018-28.2
P	MATTUCCI MARK A	12-0018-28.1
Q	WEST THOMAS E & CATHERINE M	12-0018-26
R	NORMAN LEA M ET VIR	12-0018-31
S	FERRERA THOMAS JR & SHAWNA	12-0018-31.2
T	DAWSON THOMAS A ET AL	12-0018-21.1
U	MARTIN BRIAN	12-0018-21
V	BENNINGTON LEA & JAMES R	12-0018-21.4
W	SELL MARIA A	12-0018-21.2
X	HAYNES LORIS M ET AL	12-0018-24
Y	MCKENZIE DONALD F	12-0018-23
Z	KINS HEIDI JO	12-0018-18
A2	THOMAS ANTHONY R & JESSICA	12-0001-41.2
B2	STEPHAN CRAIG E	12-0001-41.1
C2	CUSTER KIMBERLY A	12-0018-16
D2	BECKWITH WILLIAM	12-0018-13
E2	BECKWITH WILLIAM	12-0018-12
F2	NORMAN ARCH JASON & KIM S	12-0018-11.1
G2	SELL MARIA A	12-0018-7
H2	WAYNE LYNN ANNE ET AL	12-0001-42.3
I2	URACO JOHN J ET UX	12-0001-43
J2	HICKEY ERIC M	12-0001-43.1
K2	SCHAFER EDWARD J & BRENDA M	12-0001-44
L2	SCHAFER EDWARD J & BRENDA M	12-0001-7.1
M2	HAND WILLIAM L & CARNEY-HAND CHARMINE J	12-0018-1
N2	SCHAFER EDWARD J ET UX	12-0018-3
O2	MOSA BRADLEY J & LEDBETER BEVERLY	12-0018-4.1
P2	HUGHES HEIDI SCHENK	13-0003-5.2
Q2	WHITE HORSE FARM LLC	13-0003-6
R2	SIMMS JOYCE A GEER ET AL	12-0001-7.4
S2	ELLIOTT JOAN E - LIFE	12-0001-7
T2	RUNKLE SHERRY L	12-0001-7.2
U2	RUNKLE RICHARD T & MICHELLE L	12-0001-9
V2	ELLIOTT JOAN E - LIFE	12-0001-8
W2	SLIGER KAREN SCHENK & TERRY B	12-0001-6
X2	SLIGAR KAREN SCHENK & TERRY B	12-0001-5.3
Y2	WHITE HORSE FARM LLC	13-0003-2
Z2	COVENANT COMMUNITY CHURCH TRS	13-0002-22
A3	MCCORMICK MARY RITA	16-0002-7
B3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-4.1
C3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-23
D3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-24
E3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-25
F3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-26
G3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-14
H3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-13
I3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-12
J3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-11
K3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-10
L3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-9
M3	STACEY VILLAGE LTD PARTNERSHIP	16-0002-8
N3	STACY CROSSING LIMITED PARTNERSHIP	16-0002-1
O3	SCHERRER EDWARD A	16-0001-76
P3	MERINAR KENNETH LEE, MERINAR JAMES MARTIN, MERINAR JEFFREY THOMAS & MERINAR STANLEY JOSEPH	16-0001-77
Q3	POSEY CARY DAVID	16-0001-78
R3	POSEY CARY DAVID	16-0001-79
S3	TAYLOR MATTHEW J & CAROLINE	16-0001-80
T3	TAYLOR MATTHEW J & CAROLINE	16-0001-81
U3	DRNACH JOANN	16-0001-82
V3	CATLETT DIANE, DEBOLT MATTHEW S & DEBOLT STEPHANIE R	16-0001-83
W3	BLEIFUS BRIAN ALLAN	16-0001-84
X3	EBERHARD CAMERON JACOB	16-0001-85
Y3	FLEMING LOIS A	16-0001-74
Z3	GRIFFITH ROSE MARIE	16-0001-54


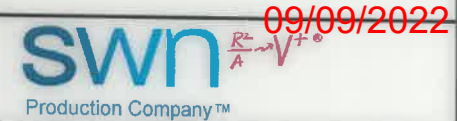
REVISIONS:	COMPANY:	 	
	OPERATOR'S	BETTY SCHAFER MSH	API #
	WELL #:	3H	47-051-02417
	DISTRICT:	SAND HILL	STATE:
		COUNTY:	WV
			DATE: 06-13-2022
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 4

**JACKSON SURVEYING
INC.**

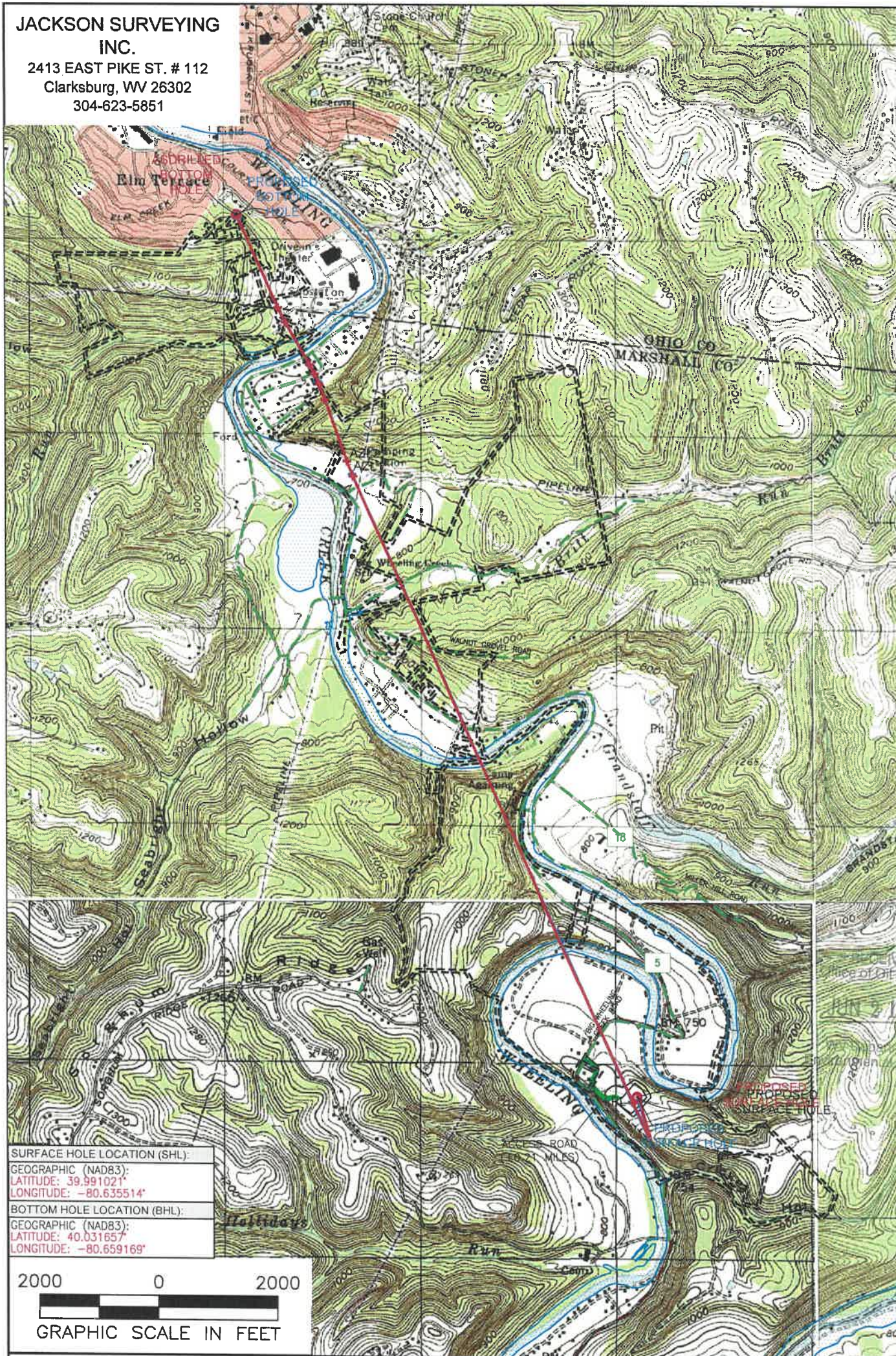
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A4	AUBER FRANCES J.	16-0001-56
B4	KOSEN JOSEPH	16-0001-55
C4	CARTER STEVEN	16-0001-57
D4	BOWMAN MICHELE E	16-0001-21
E4	BUNGARD SHAYNE D	16-0001-20
F4	DIEFENBAUGH GREGORY & JESSICA	16-0001-18
G4	NAUMANN ROBERT W & BECKY JANE	16-0001-17
H4	MURAD THOMAS A ET UX	16-0001-15
I4	SCHAFFER JAMES H	16-0001-14
J4	ROBINSON ELIZABETH A	16-0001-12
K4	TENNANT CALEB & AMANDA	16-0001-7
L4	NORRIS BRANDON C & CARLIE L	13-0002-21.1
M4	HOLDREN BARBARA	13-0002-18
N4	LONG RICHARD E ET UX	13-0002-20
O4	SCHANE THOMAS L & SANDREA M	13-0002-19
P4	LONG TODD ELI	13-0002-35
Q4	SEIDLER E. DALE JR.	13-0002-14.9
R4	SEIDLER TIMOTHY J, TRUSTEE OF THE PATRICIA L SEIDLER IRREVOCABLE TRUST DATED JANUARY 29, 2021	13-0002-14.7
S4	RAHBAR AHMAD CREDIT SHELTER TRUST	13-0002-102
T4	RENFORTH GEORGE III	13-0002-16.2
U4	POTTS PATRICK J & KRISTEN	01-0RB2-31.9
V4	CARROLL PATRICK J & JEAN A	10-0W94-1.1
W4	FARRELL STEPHEN V & CHRISTINE	10-0W95-150
X4	LEFTWICH NEIL & MCFARLAND JUDY	10-0W95-151
Y4	RALBOVSKY VICKI L; NICHESON BRIAN D	10-0W95-152
Z4	TROSCHE JUDITH S	10-0W95-153
A5	DUKE MICHAELS	10-0W95-154
B5	HUGHES VICTORIA R	10-0W95-155
C5	REMIAS WILLIAM P JR & MARY F	10-0W95-156
D5	ROBINSON MACIE	10-0W95-157
E5	EBARB JANICE L	10-0W95-158
F5	PALMER JAMES J & STACIE B	10-0W95-159
G5	SIEBER MICHAEL G & MARY C	10-0W95-160
H5	TICICH JOSEPH B & JOHNSTON W L	10-0W95-161
I5	GUERRIERO ROSEMARY E	10-0W95-162
J5	LEE ROBIN M	10-0W95-163
K5	ICE CHARLES AND ARLA D	10-0W95-164
L5	SMITH BRANDON T	10-0W95-168
M5	PELUCETTE PAUL M. & HORAN MEGHAN	10-0W95-194
N5	TRUAX LEE D. & CLURE TARA S.	10-0W95-109.1
O5	PELUCETTE PAUL M & HORAN MEGHAN E	10-0W95-194
P5	SMITH DAVID L & DIANE K	10-0W95-109.8
Q5	C J RYAN INC.	10-0W95-109.6
R5	MATYSKIELA ERIC & KRISTINA	10-0W95-109.11
S5	NEVERLY RAYMOND J & MELANIE B	10-0W95-109.4
T5	GALARDI & DIANE T	10-0W95-109.3
U5	CONTRAGUERRO R C & J A	10-0W95-109.10
V5	BIRCH SUSAN A	10-0W95-58.5
W5	EVICK TIMOTHY L & MELISSA R	10-0W95-58.6
Y5	GUMP RENTALS LLC	10-0W95-220
Z5	SALEM THOMAS & PAULINE	10-0W95-109.14
A6	SHARPSKY DAVID P & NANCY J	P/O 10-W95-109
B6	GUMP RENTALS LLC	10-0W95-219
C6	BUTTS RONALD M & TINA M	10-0W95-218
D6	BUTTS RONALD M & TINA M	10-0W95-217
E6	SHELEK DONALD W & CHRISTY L	10-0W95-216
F6	WILSON CHERYL B	10-0W95-214
G6	WILSON CHERYL B	10-0W95-221
H6	ROBRECHT RICHARD M & SUSAN L	10-0W95-112.8
I6	KARRAS JOHN M REVOCABLE TR	13-02CC-44
J6	KARRAS JOHN M REVOCABLE TR	13-02CC-45
K6	SHAPAKA PHILIP M & SHIRLEY B	13-02CC-42
L6	WHIPKEY ARCHIE W & RUTH A	13-02CC-43
M6	DOUGHERTY CHERYL L	10-0W95-112.5
N6	VANAMAN ROBERT M & VICKI L	10-0W95-112.6
O6	GILLESPIE DANIEL L & STEPHANIE H	10-0W96-39.7
P6	EVANS LUTHER & LYNN M	16-02CC-33
Q6	NARRISH ROBERT A	16-02CC-34
R6	TUEL JAMES E & LINDA	16-02CC-35
S6	LAW CRYSTAL A & IVAN T	16-02CC-36
T6	MEGALE WILLIAM B	16-02CC-37
U6	BENNETT NEIL & LISA	16-02CC-38
V6	VANDERGRIFT CHRISTOPHER & ERIKA L	16-02CC-39
W6	MCCROSKEY ROBIN L	16-02CC-40
X6	WALLACE KENNETH R SR & SUSAN	16-02CC-26
Y6	BOBER SUZANNE L TRCVATO	13-02CC-25
Z6	MILLER THOMAS E & ANNA MARIE	13-02CC-24
A7	STEPHENSON RICHARD E & LORI R	13-02CC-21
B7	BIENIEK JACQUELINE S	13-02CC-22
C7	DOBKIN JOSEPH T	13-02CC-23

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
D7	RADOSEVICH DEBORAH A	16-02CC-29
E7	WAGNER JOSEPH M & REBECCA L	16-02CC-30
F7	GOODNIGHT LARRY S & LISA A	16-02CC-31
G7	MURTY GOLLAPUDI S ET UX	16-02CC-32
H7	DIETRICH THOMAS V & JUDITH L	10-0W95-212
I7	RYAN C J INC	10-0W95-211
J7	WHEELER CHARLES D AND DENISE M	10-0W95-112.4
K7	PERONI CONSTRUCTION INC	10-0W95-111.1
L7	PERONI CONSTRUCTION INC	10-0W95-111
M7	PERONI LOUIS D & ELEE M	10-0W95-112.3
N7	BENTZ CHAD EDWARD & AMBER LYNN	10-0W95-112.1
O7	PEKLINSKY CAROLENE B	10-0W96-42
P7	DEI TODD D & STACIE L	10-0W95-209
Q7	MUSSER NATHAN M & AMBER L	10-0W96-31
R7	CARDINAL HEALTH 110 LLC	10-0W96-39.1
S7	WOJCIK STEPHEN E III & CRISTI	10-0W96-41
T7	ROBRECHT RICHARD M & SUSAN L	10-0W95-112.7
U7	TJG PROPERTIES LLC	10-0W99-08
V7	WALTON PAULA JEAN	10-0W99-12
W7	DAVIS HEATHER A.	10-0W99-11
X7	BOLDUC KATIE L & BRANDON E.	10-0W98-06
Y7	BOBER AMBROSE M & SHARON L	13-02CC-17
Z7	LITTLETON BRUCE C & ANITA L	16-02CC-13
A8	BOWMAN PATRICIA L	16-02CC-12
B8	HARSH SANDRA	16-02CC-09
C8	T J G PROPERTIES LLC	16-02CC-04
D8	T J G PROPERTIES LLC	13-0002-16
E8	MERRITT REBECCA A & ROBERT A; MILLER JR	16-0001-27
F8	WHEELING MAR-WIN CHURCH OF; NAZARENE TRUSTEES	16-0001-26
G8	HONE MARK A ET UX	16-0001-25
H8	GIBBONS MELISSA A	16-0001-24
I8	GIBBONS MELISSA A	16-0001-24.1
J8	LESNETT WALTER & KAIYA	16-0001-61
K8	CALDWELL WILLIAM B & CRYSTAL K	16-0001-60
L8	ELIAS BENJAMIN A	16-0001-62
M8	FARHATT MARY JAYNE	16-0001-63
N8	UNKNOWN	12-001A-24
O8	ROMAGNOLI JUDY E	12-001A-23
P8	HAMILTON MARY SCHENK & GARY P	12-0001-5.1
Q8	REARDON SHELLY S	12-0001-5.6
R8	HAMILTON MARY SCHENK & GARY P	12-0001-5.4
S8	HARTMAN WALTER L ET UX	12-0001-10.1
T8	BARTOLOVICH STEPHEN M	12-0001-47
U8	BARTOLOVICH STEPHEN M	12-0001-11
V8	WALTON PAULA JEAN	12-0001-30
W8	KUNTZ JOHN H	12-0001-31
X8	CONSOLIDATION COAL COMPANY; MURRAY ENERGY C/O LAND DEPT	12-0001-10.2
Y8	MERCER DARICK B & RENEE A	12-0001-32
Z8	ESTEP DOLIGLAS J & LINDA R	12-0001-33.1
A9	PATEL SHYAMSUNDAR K	12-0001-36
B9	MALARSKI PETE E ET UX	12-001B-33
C9	MALARSKI PETE E ET UX	12-001B-35
D9	MALARSKI PETE E ET UX	12-001B-36
E9	STEGMAN CATHERINE A	12-001B-37
F9	STEGMAN CATHERINE A	12-001B-37.1
G9	STEGMAN CATHERINE A	12-001B-38
H9	WHARTON PETER R ET AL	12-0001-34
I9	ADASE GEORGE & LAURIE	12-0001-29
J9	SAVAGE CHARLES JACKSON	12-0001-29.1
K9	ADASE GEORGE & LAURIE	12-0001-28
L9	HADSELL SANDRA L	12-0001-20
M9	MERINAR JUSTIN K	12-0001-21
N9	DYE WILLIAM R, DYE RICHARD D, & DYE MARK M; DYE-SCHOGER KIMBERLY	12-0009-06
O9	DYE WILLIAM R	12-0009-01
P9	THIELE CHARLES L & THIELE NADINE R. MANNERS	12-0009-2.3
Q9	STRONG GREGORY S & LOUISE M	12-0009-02
R9	MAAS BRIAN J & AMY C - TRUST	13-0003-09
S9	LANGMYER SCOTT R & MELANIE F	12-0009-03
T9	LANGMYER RAYMOND J	12-0009-04
U9	GRAY JOHN ALVIN	13-0003-13
V9	SMITH BEVERLY JILL ANITA	12-0009-5.5
W9	STEADMAN FRANKLIN L ET UX	12-0009-5.1
X9	PROVANCE FRANK J & ELIZABETH A; PROVANCE BARRY F	13-0003-14.5
Y9	SHEPHERD TIMOTHY & DEBORAH L	13-0003-14.4
Z9	GRAY JOHN ALVIN	12-0009-21
A10	JESTERS COURT 13 INC	13-0003-14.3
B10	JESTERS COURT 13 INC	13-0003-14.2
C10	JESTERS COURT 13 INC	13-0003-14.1
D10	FISHER CHARLES B & CARLA S	12-0009-20
E10	MERINAR CALVIN C - LIFE	12-0009-19
F10	FISH PATRICIA A & FREDERICK W	12-0010-1.2

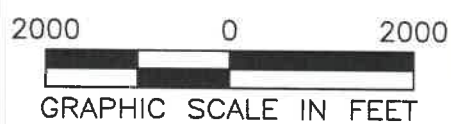
REVISIONS:	COMPANY:	 		
	OPERATOR'S	BETTY SCHAFFER MSH	API #	DATE: 06-13-2022
	WELL #:	3H	47-051-02417	DRAWN BY: N. MANO
	DISTRICT:	SAND HILL	COUNTY:	SCALE: N/A
			STATE:	DRAWING NO:
			WV	WELL LOCATION PLAT 5

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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.991021°
LONGITUDE: -80.635514°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.031657°
LONGITUDE: -80.659169°



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.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- LPL* LANDING POINT LOCATION
- 🌊 FLOOD PLAN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- == LEASE BOUNDARY
- PROPOSED PATH
- ASDRILLED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: BETTY SCHAFER MSH	WELL # 3H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE MARSHALL - 051	DISTRICT; SAND HILL	
SURFACE OWNER: ROY A. SCHAFER JR. & EDWARD J. SCHAFER	USGS 7 1/2 QUADRANGLE MAP NAME MOUNDSVILLE, WV	API # 47-051-02417	

Z:\2022 BACKUPS\1-03-22 DJ\SWN\BETTY SCHAFER\WELL PLAT\3H\B. SCHAFER MSH 3H WELL PLAT 3-16-22.DWG
MONDAY JUNE 13 2022 09:17AM

PROPERTY NUMBER 2501163448
PAD ID 3001161677

RECEIVED
Office of Oil and Gas
JUN 21 2022
Department of Environmental Protection

06/09/2022