

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

API 47-103-03507 County WETZEL District PROCTOR  
Quad WILEYVILLE, WV Pad Name BLATT-WTZ-PAD1 Field/Pool Name VICTORY FIELD WET  
Farm name ANTHONY BLATT, ET AL Well Number BLATT WTZ 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 4,396,290.715 Easting 526,724.130  
Landing Point of Curve Northing 4,396,611.365 Easting 526,832.630  
Bottom Hole Northing 4,398,605.639 Easting 524,656.049

Elevation (ft) 1279.9' 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 6/28/2022 Date drilling commenced 10/12/2022 Date drilling ceased 10/30/2022  
Date completion activities began 11/14/2022 Date completion activities ceased 12/08/2022  
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 261' Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft 1,780' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1,114' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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**APPROVED**

Reviewed by:

07/21/2023

*SMW*  
5/30/23

API 47-103 - 03507 Farm name ANTHONY BLATT, ET AL Well number BLATT WTZ 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	136'	NEW	J-55/94#		Y
Surface	17.5	13.375	406'	NEW	J-55/54.5#		Y; 18 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,777'	NEW	J-55/36#		Y; 50 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	17,290'	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 <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	576	15.60	1.19	685.44	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	351 / 743	15.60 / 16.00	1.18 / 1.12	414.18 / 832.16	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,095	15.00	1.29	3,992.55	1,001'	24
Tubing							

Drillers TD (ft) 17,290' Loggers TD (ft) 17,290'

Deepest formation penetrated MARCELLUS Plug back to (ft) 17,204'

Plug back procedure N/A

Kick off depth (ft) 6,330' 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: 6 CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: 47 CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: 319 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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07/21/2023 *[Signature]*





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Well Name: BLATT WTZ 5H 47103035070000

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	261.00	261.00	
Top of Salt Water	1780.00	1780.00	NA	NA	
Pittsburgh Coal	1114.00	1114.00	1121.00	1121.00	
Pottsville (ss)	1149.00	1149.00	1208.00	1208.00	
Raven Cliff (ss)	1659.00	1653.00	1893.00	1883.00	
Maxton (ss)	2117.00	2105.00	2221.00	2208.00	
Big Injun (ss)	2310.00	2296.00	2535.00	2517.00	
Berea (siltstone)	2889.00	2869.00	2913.00	2892.00	
Rhinstreet (shale)	6468.00	6412.00	6778.00	6692.00	
Cashaqua (shale)	6795.00	6706.00	6937.00	6814.00	
Middlesex (shale)	6937.00	6814.00	7058.00	6894.00	
Burket (shale)	7058.00	6894.00	7109.00	6924.00	
Tully (ls)	7109.00	6924.00	7157.00	6949.00	
Mahantango (shale)	7157.00	6949.00	7362.00	7032.00	
Marcellus (shale)	7362.00	7032.00	NA	NA	GAS

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**BLATT WTZ 5H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	11/10/2022	17,079	16,898	36
2	11/15/2022	16,864	16,682	36
3	11/15/2022	16,648	16,467	36
4	11/16/2022	16,433	16,251	36
5	11/16/2022	16,218	16,036	36
6	11/16/2022	16,002	15,821	36
7	11/17/2022	15,787	15,605	36
8	11/17/2022	15,572	15,390	36
9	11/18/2022	15,356	15,175	36
10	11/18/2022	15,141	14,959	36
11	11/18/2022	14,925	14,744	36
12	11/19/2022	14,710	14,529	36
13	11/19/2022	14,495	14,313	36
14	11/20/2022	14,279	14,098	36
15	11/21/2022	14,064	13,883	36
16	11/21/2022	13,849	13,667	36
17	11/21/2022	13,633	13,452	36
18	11/22/2022	13,418	13,237	36
19	11/22/2022	13,203	13,021	36
20	11/22/2022	12,987	12,806	36
21	11/23/2022	12,772	12,590	36
22	11/23/2022	12,557	12,375	36
23	11/23/2022	12,341	12,160	36
24	11/24/2022	12,126	11,944	36
25	11/24/2022	11,911	11,729	36
26	11/24/2022	11,695	11,514	36
27	11/25/2022	11,480	11,298	36
28	11/25/2022	11,264	11,083	36
29	11/25/2022	11,049	10,868	36
30	11/26/2022	10,834	10,652	36
31	11/26/2022	10,618	10,437	36
32	11/26/2022	10,403	10,222	36
33	11/27/2022	10,188	10,006	36
34	11/27/2022	9,972	9,791	36
35	11/27/2022	9,757	9,576	36
36	11/27/2022	9,542	9,360	36
37	11/28/2022	9,326	9,145	36
38	11/28/2022	9,111	8,929	36
39	11/28/2022	8,896	8,714	36
40	11/29/2022	8,680	8,499	36
41	11/29/2022	8,465	8,283	36
42	11/29/2022	8,250	8,068	36
43	11/30/2022	8,034	7,853	36
44	11/30/2022	7,819	7,637	36
45	11/30/2022	7,603	7,422	36

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**BLATT WTZ 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/other
Stage No	Stim Date	Avg Rate	Avg Treat Psi	Max Breakdow	ISIP	Amount of Pro	Amount of Wa	Amount of N2
1	11/15/2022	79.2	7,844	6,500	3,930	167,900	5,235	0
2	11/15/2022	103.1	9,508	5,828	5,763	305,980	9,094	0
3	11/15/2022	91.5	8,693	6,800	4,590	302,200	9,627	0
4	11/16/2022	97.5	8,886	6,715	5,808	321,990	8,920	0
5	11/16/2022	91.7	8,540	5,209	4,690	308,170	8,730	0
6	11/17/2022	108	9,812	6,236	5,663	305,020	8,544	0
7	11/17/2022	100.3	8,849	6,371	5,815	308,780	8,479	0
8	11/18/2022	91.2	8,091	6,215	4,425	307,390	8,413	0
9	11/18/2022	94.1	8,376	6,380	5,812	308,360	8,528	0
10	11/18/2022	94.8	8,578	6,403	6,010	303,750	8,408	0
11	11/19/2022	89.1	8,219	6,507	5,514	298,240	8,301	0
12	11/19/2022	90.4	8,206	7,417	5,000	305,010	8,429	0
13	11/20/2022	90.2	8,061	6,635	4,900	299,520	8,234	0
14	11/20/2022	87	8,119	6,958	4,510	301,460	8,836	0
15	11/21/2022	98.9	8,742	7,059	5,685	302,820	8,444	0
16	11/21/2022	94.7	8,316	6,901	4,950	303,520	8,548	0
17	11/21/2022	90.4	8,105	7,120	4,910	301,600	8,277	0
18	11/22/2022	92.7	8,175	6,895	5,129	308,660	8,441	0
19	11/22/2022	89.7	7,683	6,728	5,244	301,470	8,315	0
20	11/22/2022	89.4	7,775	7,429	4,925	300,370	8,184	0
21	11/23/2022	90.5	7,762	6,015	4,701	305,050	8,458	0
22	11/23/2022	90.6	7,668	6,046	4,900	310,620	8,552	0
23	11/23/2022	90.6	7,748	5,198	5,547	323,930	8,620	0
24	11/24/2022	90.9	7,736	6,233	5,057	325,010	8,743	0
25	11/24/2022	93.3	7,653	6,168	4,789	307,030	8,424	0
26	11/24/2022	90.3	7,563	5,777	5,108	301,330	8,241	0
27	11/25/2022	90.5	7,525	6,213	5,245	306,750	8,258	0
28	11/25/2022	90.6	7,562	6,121	5,103	310,370	8,261	0
29	11/25/2022	90.5	7,545	6,304	5,778	307,060	8,339	0
30	11/26/2022	91	7,592	6,130	5,415	316,920	8,461	0
31	11/26/2022	90.1	7,195	6,592	5,023	305,720	8,231	0
32	11/26/2022	90.8	7,543	5,580	5,212	304,530	8,332	0
33	11/27/2022	89.6	7,514	6,650	4,735	308,050	8,140	0
34	11/27/2022	90.4	7,190	6,170	4,765	303,130	8,095	0
35	11/27/2022	90.3	7,169	6,009	5,824	305,510	8,213	0
36	11/28/2022	90	7,079	5,906	4,889	306,130	8,209	0
37	11/28/2022	90.9	6,988	5,081	4,468	303,850	8,598	0
38	11/28/2022	76.6	7,008	6,702	5,755	297,830	8,015	0
39	11/29/2022	90.8	6,922	2,777	5,023	304,920	8,141	0
40	11/29/2022	90.5	7,105	5,984	4,589	307,390	8,137	0
41	11/29/2022	90.9	6,998	5,836	5,217	303,340	7,950	0
42	11/29/2022	90.4	6,965	6,014	5,623	307,060	8,156	0
43	11/30/2022	90.5	6,887	5,650	4,601	302,580	8,366	0
44	11/30/2022	90.4	6,970	5,817	5,252	306,240	8,092	0
45	11/30/2022	87.8	6,849	7,005	4,909	309,690	8,142	0

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07/21/2023





Latitude: 39°45'00"

SURFACE HOLE 6,058'

Latitude: 39°45'00"

BOTTOM HOLE 1,102'

# JACKSON SURVEYING INC.

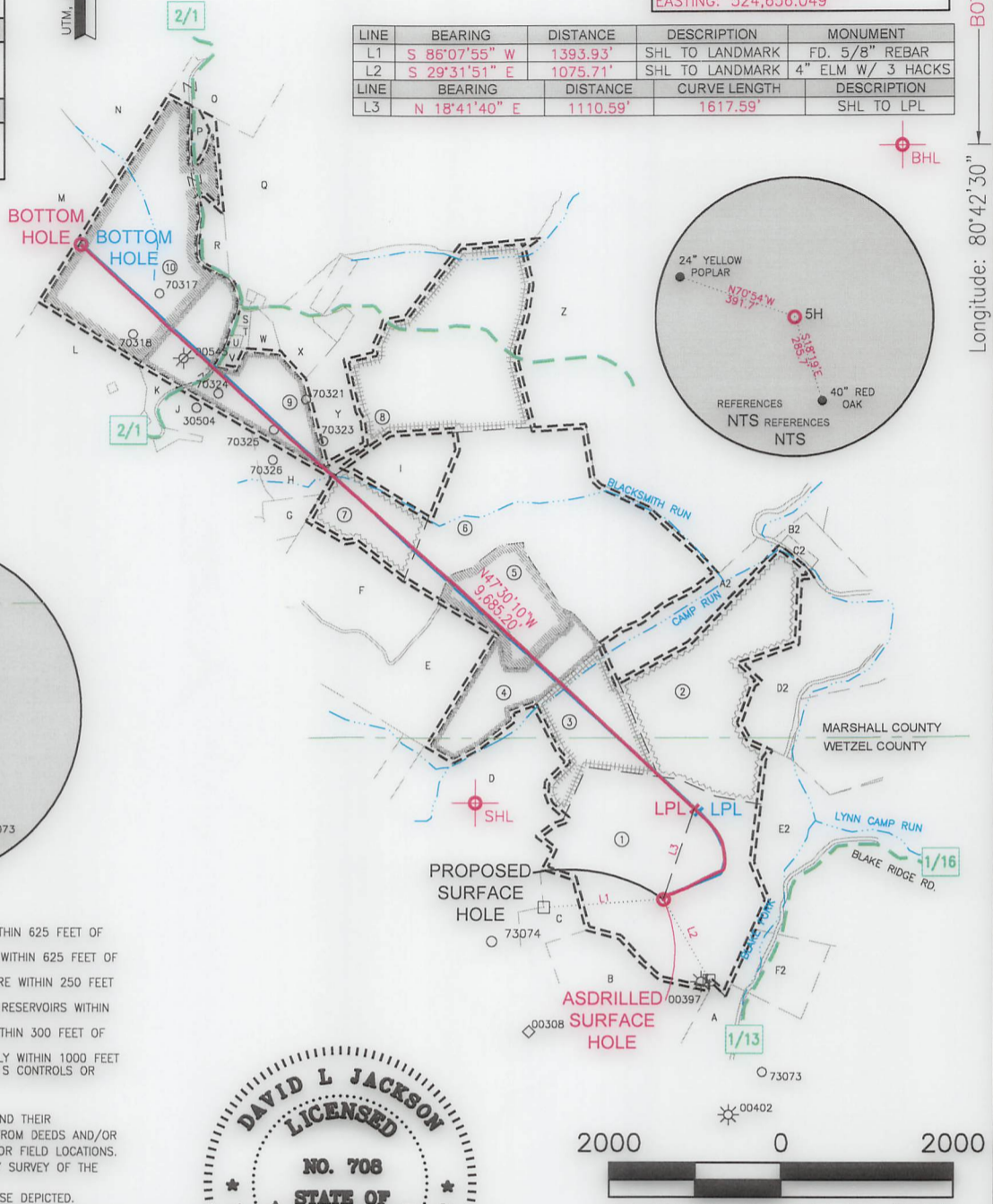
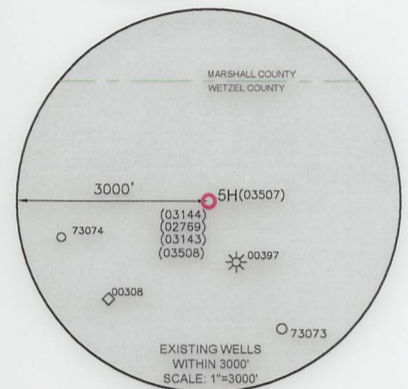
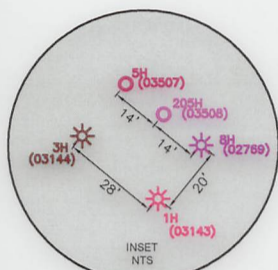
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,396,290.602 EASTING: 526,724.199
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,396,600.478 EASTING: 526,847.329
<b>BOTTOM HOLE LOCATION (BHL):</b>
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LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 86°07'55" W	1393.93'	SHL TO LANDMARK	FD, 5/8" REBAR
L2	S 29°31'51" E	1075.71'	SHL TO LANDMARK	4" ELM W/ 3 HACKS
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 18°41'40" E	1110.59'	1617.59'	SHL TO LPL

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



### 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.

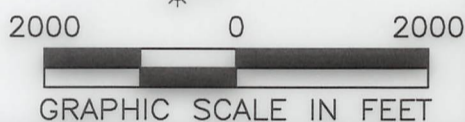
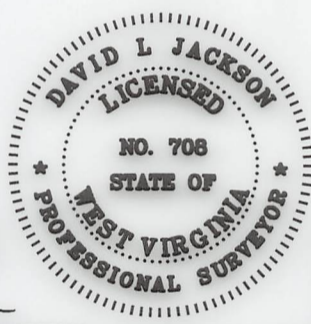
### NOTES ON SURVEY

- 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: **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)

BLATT WTZ  
OPERATOR'S WELL #: 5H  
API WELL #: 47 103 03507  
STATE COUNTY PERMIT

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

WATERSHED: BLAKE FORK OF LYNN CAMP RUN OF FISH CREEK (HUC-10) ELEVATION: 1279.9'

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: ANTHONY BLATT, ET AL ACREAGE: ±108.00

OIL & GAS ROYALTY OWNER: ANTHONY BLATT, ET AL ACREAGE: ±108.00

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: 7,078 TVD 17,290 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>	○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	— LEASE BOUNDARY
LPL* LANDING POINT LOCATION	— ASDRILLED PATH	— PROPOSED PATH
⊙ EXISTING WATER WELL		
⊙ EXISTING SPRING		

<b>REVISIONS:</b>	DATE: 01-10-2023
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

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SURFACE HOLE 6,058'

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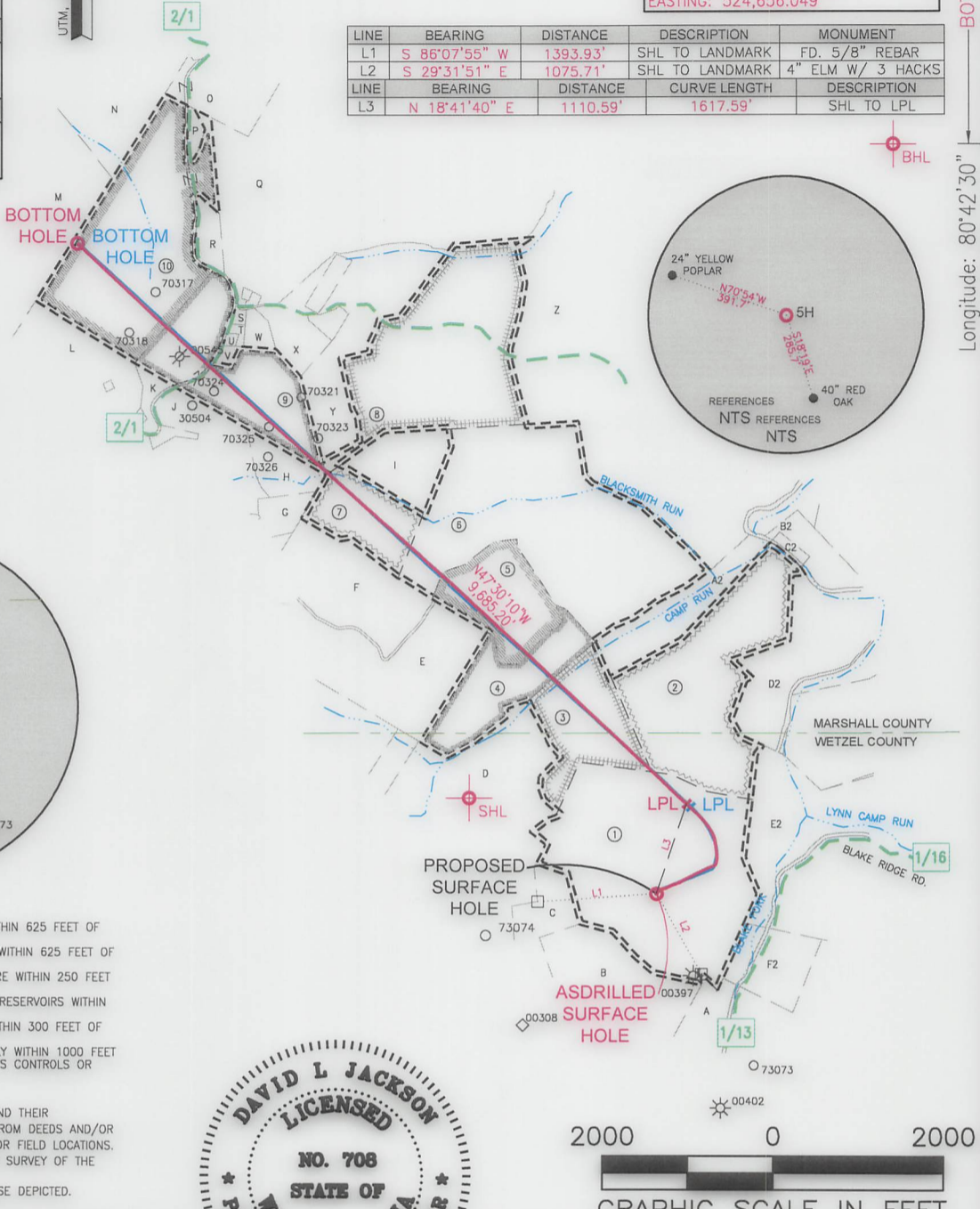
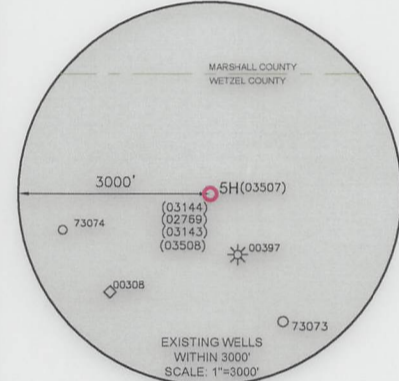
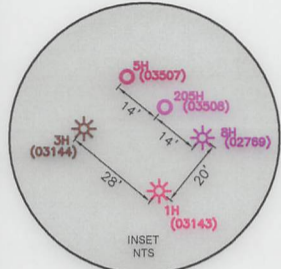
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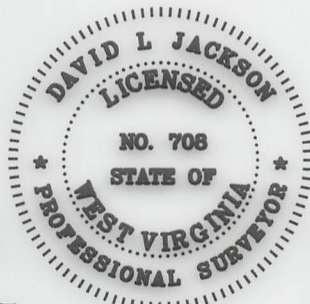
### NOTES ON SURVEY

- 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*



2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY: **SWN** **SWN** R<sup>2</sup> A<sup>+</sup> V<sup>+</sup>  
Production Company, LLC Production Company™

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	BLATT WTZ			
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #:	5H		
			API WELL #:	47	103	03507
				STATE	COUNTY	PERMIT

WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: BLAKE FORK OF LYNN CAMP RUN OF FISH CREEK (HUC-10)	ELEVATION: 1279.9'
DISTRICT: PROCTOR	COUNTY: WETZEL	QUADRANGLE: WILEYVILLE, WV
SURFACE OWNER: ANTHONY BLATT, ET AL		ACREAGE: ±108.00
OIL & GAS ROYALTY OWNER: ANTHONY BLATT, ET AL		ACREAGE: ±108.00
DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/>	CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) <b>ASDRILLED</b>	<b>07/21/2023</b>
TARGET FORMATION: MARCELLUS		ESTIMATED DEPTH: 7,078 TVD 17,290 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

<b>LEGEND:</b>	— SURVEYED BOUNDARY	REVISIONS:	DATE: 01-10-2023
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊙ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		
LPL* LANDING POINT LOCATION	— ASDRILLED PATH		
⊕ EXISTING WATER WELL	— PROPOSED PATH		
⊙ EXISTING SPRING			
			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	BLATT ANTHONY ET AL (S/R)	12-4-5
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	BLAIR ZACHARY M (S)	9-21-19
3	HOFFMAN KIMBERLY C (S)	12-4-40
4	FOX PAUL G (S)	9-21-21
5	HOFFMAN KIMBERLY C (S)	9-21-1.1
6	VILLERS ROBERT F (S)	9-21-1
7	MILLER JAMES B & HELEN M (S)	9-20-16
8	NICE MARY JOSEPHINE (S)	9-20-13
9	WEIGAND JOHN G JR & MARILYN S (S)	9-20-9
10	TAGG SONNY M & LINDA L (S)	9-20-7

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	RABER NANCY ETAL	12-4-16
B	SHIBEN ESTATES INC	12-4-25
C	BLATT ANTHONY	12-4-15
D	BLATT ANTHONY C	12-4-14
E	BLATT ANTHONY ET AL	12-4-4
F	FOX THOMAS JOHN	9-22-10
G	URBANEK MICHAEL A	9-20-17.2
H	WEIGAND JOHN G JR & MARILYN S	9-20-17.5
I	WEIGAND DAVID PAUL	9-20-15
J	KLUG MARTIN L	9-20-17
K	STINE MARY MARGARET	9-20-21
L	KLUG JOAN L ET AL	9-20-22
M	FROHNAPFEL GERALD A ET UX ESTS- TRUST	9-20-5
N	FERRELL KEITH & KRISTY REVOCABLE LIVING TRUST	9-20-6
O	FERRELL KEITH & KRISTY REVOCABLE LIVING TRUST	9-18-15
P	DULANEY MICKEY R JR	9-20-7.2
Q	FROHNAPFEL PATRICK A ET UX	9-20-11
R	FROHNAPFEL DAVID PAUL	9-20-7.1
S	MILLER JAMES ET UX	9-20-9.5
T	MILLER JAMES ET UX	9-20-9.3
U	MILLER JAMES ET UX	9-20-10
V	SHUTLER HELEN B - LIFE	9-20-9.4
W	MILLER JAMES ET UX	9-20-9.6
X	MILLER JAMES B & HELEN M	9-20-8
Y	WEIGAND DAVID PAUL	9-20-12.1
Z	ROSELAND PROPERTY LLC	9-21-2
A2	BLAIR ZACHARY M	9-21-18
B2	BLAIR ZACHARY M	9-21-16
C2	BLAIR ZACHARY M	9-21-17
D2	BLAIR ZACHARY M	9-21-15
E2	RABER NANCY ETAL	12-4-6
F2	RABER NANCY ETAL	12-4-16


07/21/2023

REVISIONS:	COMPANY:			 	
	OPERATOR'S	BLATT WTZ	API #:	DATE: 01-10-2023	
	WELL #:	5H	47-103-03507	DRAWN BY: N. MANO	
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A	
	PROCTOR	WETZEL	WV	DRAWING NO:	
				WELL LOCATION PLAT 2	

TRACT	SURFACE OWNER (S) \ ROYALTY OWNER (R)	TAX PARCEL
1	BLATT ANTHONY ET AL (S) (R)	12-4-2
2	SURFACE OWNER (S)	9-21-19
3	BLAIR ZACHARY M (S)	12-4-40
4	HOFFMAN KIMBERLY C (S)	9-21-21
5	FOX PAUL G (S)	9-21-11
6	HOFFMAN KIMBERLY C (S)	9-21-1
7	VILLERS ROBERT F (S)	9-20-16
8	MILLER JAMES B & HELEN M (S)	9-20-13
9	NICE MARY JOSEPHINE (S)	9-20-9
10	WEIGAND JOHN G JR & MARILYN S (S)	9-20-7
	TAG SONNY M & LINDA L (S)	

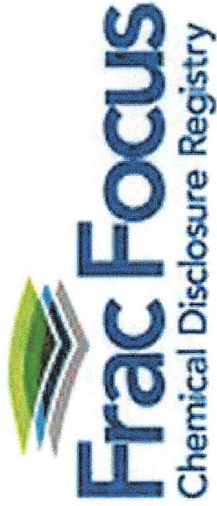
TRACT	SURFACE OWNER	TAX PARCEL
A	RABER NANCY ETAL	12-4-16
B	SHIBEN ESTATES INC	12-4-25
C	BLATT ANTHONY	12-4-12
D	BLATT ANTHONY C	12-4-14
E	BLATT ANTHONY ET AL	12-4-4
F	FOX THOMAS JOHN	9-21-10
G	URBANEK MICHAEL A	9-20-17.2
H	WEIGAND JOHN G JR & MARILYN S	9-20-17.2
I	WEIGAND DAVID PAUL	9-20-12
J	KLUG MARTIN J	9-20-17
K	STINE MARY MARGARET	9-20-21
L	KLUG JOAN L ET AL	9-20-22
M	FROHNAPFEL GERALD A ET UX EST2- TRUST	9-20-2
N	FERRILL KEITH & KRISTY REVOCABLE LIVING TRUST	9-20-6
O	FERRILL KEITH & KRISTY REVOCABLE LIVING TRUST	9-18-12
P	DULANEY MICKEL R JR	9-20-7.2
Q	FROHNAPFEL PATRICK A ET UX	9-20-11
R	FROHNAPFEL DAVID PAUL	9-20-7.1
S	MILLER JAMES ET UX	9-20-9.2
T	MILLER JAMES ET UX	9-20-9.3
U	MILLER JAMES ET UX	9-20-10
V	SHULTER HELEN B - LIFE	9-20-9.4
W	MILLER JAMES ET UX	9-20-9.6
X	MILLER JAMES B & HELEN M	9-20-8
Y	WEIGAND DAVID PAUL	9-20-12.1
Z	ROSELAND PROPERTY LLC	9-21-2
A1	BLAIR ZACHARY M	9-21-18
B1	BLAIR ZACHARY M	9-21-16
C1	BLAIR ZACHARY M	9-21-17
D1	BLAIR ZACHARY M	9-21-12
E1	RABER NANCY ETAL	12-4-6
F1	RABER NANCY ETAL	12-4-16

07/21/2023

		COMPANY:	REVISIONS:
DATE: 01-10-2023	API #: 47-103-03207	OPERATOR'S: BLATT WTS	
DRAWN BY: N. MANO	STATE: WV	WELL #: 2H	
SCALE: N/A	COUNTY: WETZEL	DISTRICT:	
DRAWING NO:		PROCTOR:	
WELL LOCATION PLAT 2			

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/15/2022
Job End Date:	12/1/2022
State:	West Virginia
County:	Wetzel
API Number:	47-103-03507-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	BLATT WTZ 5
Latitude:	39.71604799
Longitude:	-80.68829375
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,995
Total Base Water Volume (gal):	15,707,162
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					
				7732-18-5	100.00000	90.19089	Density = 8.345
Toxicide 4Frac	SWN Well Services	Biocide					
				Listed Below			

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MAR 6 2023  
West Virginia Department of Environmental Protection

07/21/2023



			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9	10.00000	0.00005	
			Cinnamaldehyde	104-55-2	10.00000	0.00005	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00005	
			1-Octanol	111-87-5	5.00000	0.00002	
			1-Decanol	112-30-1	5.00000	0.00002	
			2-Butoxyethanol	111-76-2	5.00000	0.00002	
			Triethyl phosphate	78-40-0	5.00000	0.00002	
			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00002	

\* 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)

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WV Department of  
Environmental Protection

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