

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

API 47-103-03371 County WETZEL District PROCTOR  
Quad WILEYVILLE, WV Pad Name WILLIAM RITCHEA-WTZ-PAD1 Field/Pool Name VICTORY FIELD WET  
Farm name WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA Well Number WILLIAM RITCHEA WTZ 8H  
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 4,391,141.626 Easting 529,225.798  
Landing Point of Curve Northing 4,390,884.152 Easting 529,090.506  
Bottom Hole Northing 4,388,675.229 Easting 531,420.225

Elevation (ft) 1,563' 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 2/9/2021 Date drilling commenced 4/1/2021 Date drilling ceased 4/13/2021  
Date completion activities began 5/12/2021 Date completion activities ceased 6/16/2021  
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 541' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1556' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1492' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

RECEIVED  
Office of Oil and Gas  
SEP 01 2021

WV Department of  
Environmental Protection

Reviewed by:  
*[Signature]*  
10/01/2021

API 47- 103 - 03371 Farm name WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA Well number WILLIAM RITCHEA WTZ 8H

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	591	NEW	J-55/54.5#		Y; 35 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,959	NEW	J-55/36#		Y; 31 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	18,717	NEW	P-110/20#		Y
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	586	15.60	1.19	697.34	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	975	15.60	1.18	1,150.5	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,343	15.00	1.23	4,111.89	SURFACE	24
Tubing							

Drillers TD (ft) 18,717' Loggers TD (ft) 18,717'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6,820'

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 \_\_\_\_\_





# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/12/2021
Job End Date:	6/9/2021
State:	West Virginia
County:	Wetzel
API Number:	47-103-03371-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	WILLIAM RITCHEA WTZ 8
Latitude:	39.66959291
Longitude:	-80.65925421
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,649
Total Base Water Volume (gal):	17,959,554
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	90.07267	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.42792	

HCL	SWN Well Services	Solvent					
				Listed Below			
SWN FRW-11LC	SWN Well Services	Friction Reducer					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
Tolicide PS 50A	SWN Well Services	Biocide					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control					
				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			

Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

			Crystalline Silica, quartz	14808-60-7	100.00000	9.38760	
			Hydrochloric Acid	7647-01-0	15.00000	0.05675	
			Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.03453	
			Tetrakis	55566-30-8	55.00000	0.00790	
			Glycerin	56-81-5	50.00000	0.00316	



			Ammonium Chloride	12125-02-9	2.00000	0.00276
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00207
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00207
			Acetic Acid	64-19-7	37.50000	0.00076
			Diethylenetriamine penta	15827-60-8	10.00000	0.00063
			Methanol	67-56-1	80.00000	0.00046
			Citric Acid	77-92-9	22.50000	0.00045
			Acrylic acid terpolymer	397256-50-7	1.00000	0.00014
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00006
			Fatty acids	61790-12-3	5.02700	0.00003
			Modified thiourea polymer	68527-49-1	4.74600	0.00003
			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)



Well Name: **William Ritchea WTZ 8H**

**47103033710000**

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	541.00	541.00	
Top of Salt Water	1556.00	1556.00	NA	NA	
Pittsburgh Coal	1492.00	1492.00	1499.00	1499.00	
Raven Cliff (ss)	1973.00	1973.00	2507.00	2507.00	
Maxton (ss)	2507.00	2507.00	2663.00	2663.00	
Big Injun (ss)	2663.00	2663.00	2907.00	2907.00	
Berea (siltstone)	3271.00	3267.00	3361.00	3327.00	
Rhinestreet (shale)	7008.00	6881.00	7483.00	7304.00	
Middlesex (shale)	7483.00	7304.00	7621.00	7401.00	
Burket (shale)	7621.00	7401.00	7656.00	7424.00	
Tully (ls)	7656.00	7424.00	7691.00	7445.00	
Mahantango (shale)	7691.00	7445.00	7882.00	7534.00	
Marcellus (shale)	7882.00	7534.00	NA	NA	GAS



**WILLIAM RITCHEA WTZ 8H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	5/6/2021	18,646	18,555	36
2	5/13/2021	18,521	18,342	36
3	5/13/2021	18,308	18,129	36
4	5/14/2021	18,096	17,917	36
5	5/14/2021	17,883	17,704	36
6	5/15/2021	17,671	17,491	36
7	5/15/2021	17,458	17,279	36
8	5/15/2021	17,245	17,066	36
9	5/16/2021	17,033	16,854	36
10	5/17/2021	16,820	16,641	36
11	5/17/2021	16,608	16,428	36
12	5/17/2021	16,395	16,216	36
13	5/18/2021	16,182	16,003	36
14	5/18/2021	15,970	15,791	36
15	5/18/2021	15,757	15,578	36
16	5/19/2021	15,545	15,365	36
17	5/19/2021	15,332	15,153	36
18	5/20/2021	15,119	14,940	36
19	5/21/2021	14,907	14,728	36
20	5/22/2021	14,694	14,515	36
21	5/22/2021	14,482	14,302	36
22	5/23/2021	14,269	14,090	36
23	5/24/2021	14,056	13,877	36
24	5/25/2021	13,844	13,665	36
25	5/26/2021	13,631	13,451	36
26	5/27/2021	13,419	13,239	36
27	5/28/2021	13,206	13,027	36
28	5/28/2021	12,993	12,814	36
29	5/29/2021	12,781	12,602	36
30	5/29/2021	12,568	12,389	36
31	5/30/2021	12,352	12,176	36
32	5/31/2021	12,144	11,963	36
33	6/1/2021	11,930	11,751	36
34	6/1/2021	11,718	11,539	36
35	6/1/2021	11,505	11,326	36
36	6/2/2021	11,293	11,113	36
37	6/2/2021	11,080	10,901	36
38	6/3/2021	10,867	10,688	36
39	6/3/2021	10,655	10,476	36
40	6/4/2021	10,442	10,263	36
41	6/4/2021	10,230	10,050	36
42	6/4/2021	10,017	9,838	36
43	6/5/2021	9,804	9,625	36

**WILLIAM RITCHEA Wtz 8H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	6/5/2021	9,592	9,413	36
45	6/6/2021	9,379	9,200	36
46	6/6/2021	9,167	8,987	36
47	6/7/2021	8,954	8,775	36
48	6/7/2021	8,741	8,562	36
49	6/8/2021	8,529	8,350	36
50	6/8/2021	8,316	8,137	36
51	6/9/2021	8,104	7,924	36

**WILLIAM RITCHEA WTZ 8H**  
**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	5/12/2021	68.7	7,747	7,612	4,334	115,940	5,250	0
2	5/13/2021	82.2	8,837	6,520	5,612	314,340	9,320	0
3	5/14/2021	88.8	8,782	6,310	4,931	306,020	8,982	0
4	5/14/2021	92.2	8,887	7,011	5,267	308,510	8,779	0
5	5/15/2021	89.3	9,050	6,800	5,600	295,630	8,485	0
6	5/15/2021	92.8	8,807	5,182	4,958	304,740	8,856	0
7	5/15/2021	91.2	9,016	6,592	4,800	310,860	8,671	0
8	5/16/2021	89.1	8,961	7,001	4,563	307,950	8,595	0
9	5/16/2021	94	9,083	6,743	4,681	311,400	8,566	0
10	5/17/2021	90.4	9,032	6,769	4,860	311,220	8,538	0
11	5/17/2021	93	9,029	6,622	4,965	313,810	8,575	0
12	5/17/2021	91.4	9,046	6,938	4,846	310,990	8,559	0
13	5/18/2021	98.3	9,097	6,715	4,976	311,210	8,754	0
14	5/18/2021	97.8	9,064	6,516	5,012	313,020	8,770	0
15	5/18/2021	97.6	9,082	6,708	5,321	317,760	8,599	0
16	5/19/2021	93.8	8,653	6,669	5,282	311,560	9,516	0
17	5/19/2021	99	8,764	6,520	5,298	317,710	8,431	0
18	5/21/2021	95	8,895	6,765	4,707	310,770	8,458	0
19	5/21/2021	89.7	8,941	6,540	4,762	310,140	8,614	0
20	5/22/2021	90.6	8,572	6,658	4,653	314,400	8,902	0
21	5/23/2021	99.3	8,801	5,786	4,912	309,690	8,732	0
22	5/24/2021	97.6	8,932	6,487	4,779	309,560	8,532	0
23	5/25/2021	98.7	8,961	6,384	4,644	309,290	8,704	0
24	5/26/2021	96	8,809	6,506	4,278	310,300	8,735	0
25	5/27/2021	99.4	7,939	5,620	4,516	313,690	8,523	0
26	5/28/2021	99.4	8,410	7,005	4,908	311,700	8,902	0
27	5/28/2021	99.4	8,458	6,563	4,435	304,280	8,209	0
28	5/29/2021	99.6	8,600	6,320	4,290	311,640	8,285	0
29	5/29/2021	98	8,391	5,865	5,302	262,990	7,908	0
30	5/30/2021	98.3	8,569	6,016	4,316	304,150	8,253	0
31	5/31/2021	98.4	8,399	5,682	4,105	310,680	8,341	0
32	5/31/2021	99.4	8,224	5,707	4,432	313,140	8,345	0
33	6/1/2021	100	9,140	5,960	4,164	316,820	8,496	0
34	6/1/2021	99.9	8,359	6,744	4,482	313,280	8,452	0
35	6/2/2021	94.9	8,742	6,105	4,548	308,120	8,050	0
36	6/2/2021	99.4	8,201	6,308	4,373	310,810	8,305	0
37	6/3/2021	96.8	7,746	6,732	4,449	308,900	8,264	0
38	6/3/2021	97.1	7,237	6,070	4,427	310,920	8,013	0
39	6/3/2021	100	8,338	5,785	4,265	310,090	8,289	0
40	6/4/2021	96.1	7,343	5,018	4,680	322,090	8,222	0
41	6/4/2021	97.8	8,185	6,053	4,425	317,800	8,516	0
42	6/4/2021	98.7	8,160	6,228	4,287	307,800	8,240	0
43	6/5/2021	97.2	8,303	6,163	4,486	303,400	8,227	0
44	6/5/2021	99.6	8,467	6,423	4,362	311,910	8,254	0
45	6/6/2021	97.8	7,770	6,217	4,620	312,080	8,142	0
46	6/6/2021	100	8,242	5,341	4,562	313,440	8,372	0
47	6/7/2021	97.9	8,084	6,500	4,402	311,630	7,979	0
48	6/7/2021	100	7,476	6,447	4,450	313,350	8,200	0
49	6/8/2021	98	7,994	6,457	4,670	312,160	8,163	0

WILLIAM RITCHEA Wtz 8H

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
50	6/8/2021	100	7,564	6,421	4,802	316,730	8,243	0
51	6/9/2021	99.4	7,814	6,657	4,802	309,660	8,171	0



Latitude: 39°42'30"

SURFACE HOLE 9,637'

Latitude: 39°40'00"

BOTTOM HOLE 2,473'

JACKSON SURVEYING INC.

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

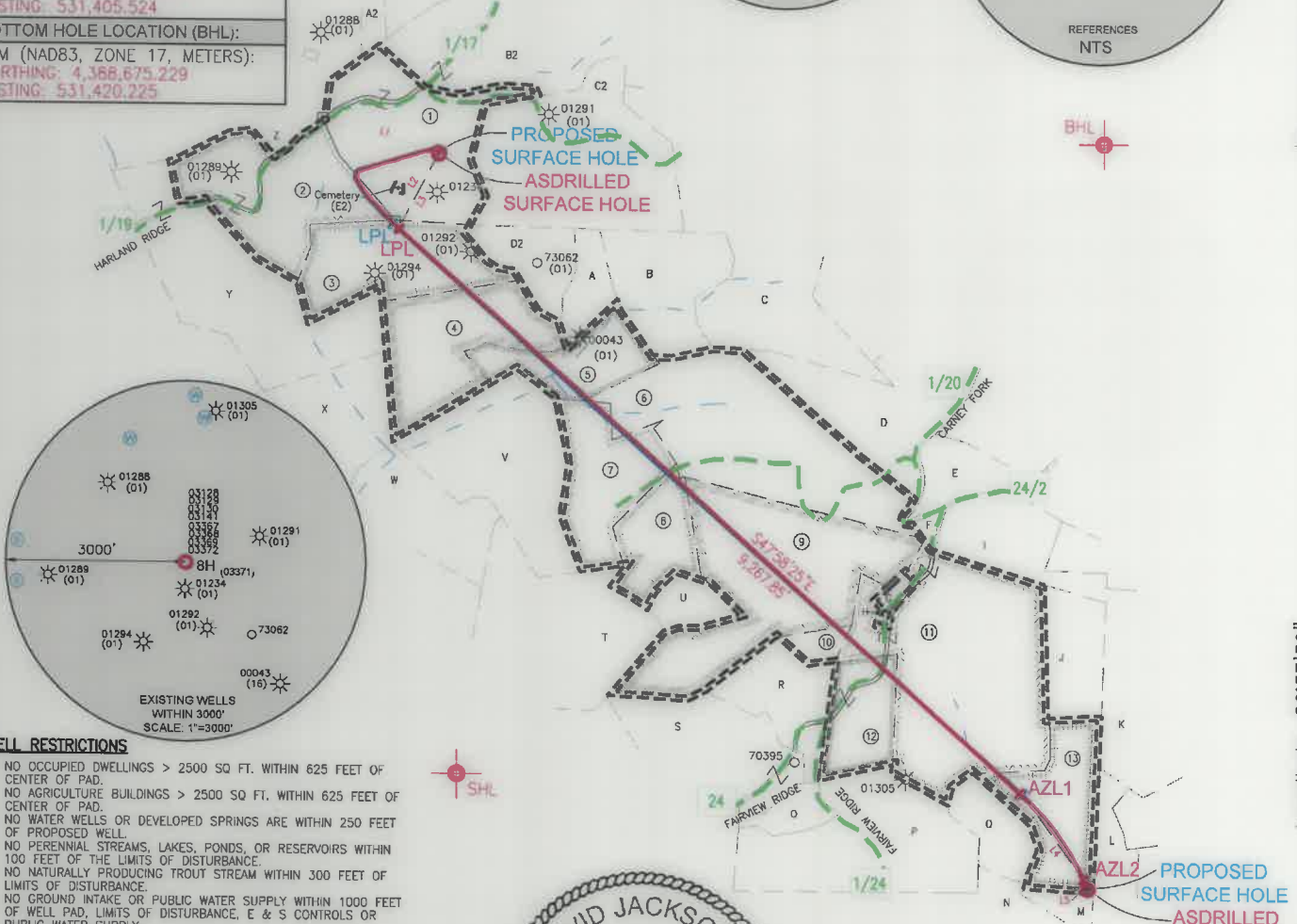
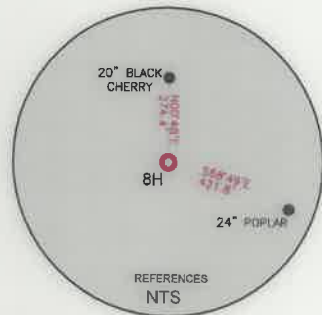
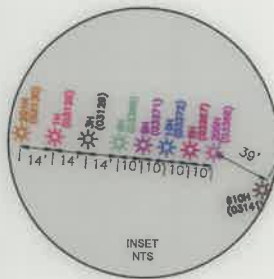
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 73°48'54" W	1,344.92'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	S 32°43'03" W	909.77'	SHL TO LANDMARK	FD. 5/8" REBAR
L5	S 24°34'26" E	115.97'	AZL TO BHL	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 27°43'12" W	954.25'	1,832.23'	SHL TO LPL
L4	S 37°10'38" E	1,176.09'	1,162.88'	AZL1 TO AZL2

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,391,141.626	
EASTING: 529,225.798	
LANDING POINT LOCATION (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,390,884.152	
EASTING: 529,090.506	
AZIMUTH POINT LOCATION-1 (AZL1):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,388,992.996	
EASTING: 531,188.906	
AZIMUTH POINT LOCATION-2 (AZL2):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,388,707.376	
EASTING: 531,405.524	
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,388,675.229	
EASTING: 531,420.225	

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.

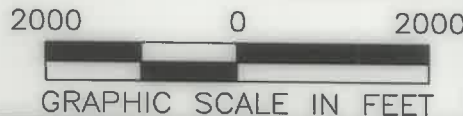
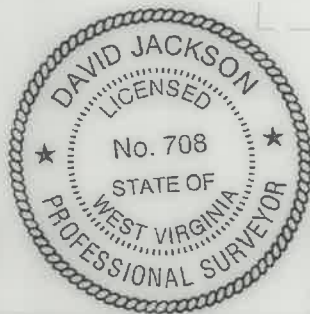
NOTES ON SURVEY

- 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:



(+) 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 ELEVATION: GRADE GPS (NAVD 88, US FT)

WILLIAM RITCHEA WTZ

OPERATOR'S WELL #: 8H

API WELL #: 47 103 03371

STATE COUNTY PERMIT

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

WATERSHED: FISH CREEK (HUC-10) ELEVATION: 1,563.0'

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA ACREAGE: ±62.00

OIL & GAS ROYALTY OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA ACREAGE: ±62.00

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: 10/01/2021' 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

LEGEND:		PROPOSED SURFACE HOLE / BOTTOM HOLE		SURVEYED BOUNDARY	REVISIONS:	DATE: 08-18-2021
		EXISTING / PRODUCING WELLHEAD		DRILLING UNIT		
		LANDING POINT LOCATION		LEASE BOUNDARY		DRAWN BY: N. MANO
		EXISTING WATER WELL		ASDRILLED PATH		SCALE: 1" = 2000'
	EXISTING SPRING		PROPOSED PATH			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	RITCHEA WILLIAM D & SHIRLEY E (S/R)	12-0015-21
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	PITOSCIA WILLIAM R(S)	12-0014-27
3	DUELLEY BERNARD LEE ET AL & HALL SUSAN (S)	12-0015-25
4	LEMASTERS HAROLD E & BETTY S; LEMASTERS KEYSTONE TRUST & STANSBERRY LINDA SNIDER & SNIDER JAMES F. (S)	12-0015-31
5	LEMASTERS HAROLD E & BETTY S; LEMASTERS KEYSTONE TRUST & STANSBERRY LINDA SNIDER & SNIDER JAMES F. (S)	12-0015-32
6	MELOTT TERREL LEMOYN (S)	01-0010-22
7	A&D WOODLANDS LTD(S)	01-0009-15
8	RITCHEA WILLIAM D ; RITCHEA SHIRLEY (S)	01-0009-16
9	RITCHEA WILLIAM D ; RITCHEA SHIRLEY E (S)	01-0010-21
10	WYKERT WAYNE (S)	01-0010-45.2
11	RITCHEA WILLIAM D & SHIRLEY E (S)	01-0010-33
12	WYKERT WAYNE (S)	01-0010-45.1
13	FLEMING ALAN & CYNTHIA (S)	01-0010-48

**ADJOINING OWNERS TABLE**

TRACT	SURFACE OWNER	TAX PARCEL
A	BROWN SANDY K	12-0015-27
B	BROWN SANDY K	12-0015-28
C	YOHO KIMBERLY & KEITH ALLEN	12-0015-29
D	MELOTT TERREL L	01-0010-10
E	BARD VANESSA	01-0010-11.1
F	WYKERT ERIC D	01-0010-23
G	RICHTER ROMEO & CAROL	01-0010-33.1
H	YEATER CHESTER C JR & LORENE REVOCABLE TRUST	01-0010-32
I	MCMILLEN SHARON J	01-0010-25
J	MCMILLEN SHARON J	01-0010-34
K	LASURE MICHAEL E. & VELVA C.	01-0010-35
L	COASTAL FOREST RESOURCES CO	01-0014-03
M	COASTAL FOREST RESOURCES CO & COASTAL TIMBERLANDS CO	01-0014-02.1
N	CAIN GLENN JR & ELEANOR T	01-0014-02
O	COASTAL FOREST RESOURCES CO	01-0010-47
P	CAIN SAMUEL EST & CAIN GLEN JR	01-0010-46
Q	WYKERT VERNA L	01-0009-13
R	JERRELL WILMA & JEFFREY (S)	01-0010-45
S	WYKERT VERNA L	01-0009-12
T	MELLOTT EDWARD NOEL HRS	01-0009-06
U	MELLOTT EDWARD NOEL HRS	01-0009-05
V	MELLOTT TERREL	01-0009-14
W	RICHMAN TROY M	01-0009-04
X	CECIL ROBERT LEE	12-0015-33
Y	PITOSCIA ANTHONY A & DAVID T	12-0014-26
Z	PITOSCIA WILLIAM R	12-0014-16
A2	URBANEK SCOTT J & CHRYSAL A	12-0015-13
B2	LEMASTERS H C HRS & MANKER; CHARLES V REVOCABLE LIVING TRU	12-0015-18
C2	DUELLEY BERNARD LEE ETAL & HALL SUSAN	12-0015-22
D2	DUELLEY BERNARD LEE ETAL & HALL SUSAN	12-0015-26
E2	LEMASTERS CEMETERY	12-0015-20

<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,141.788 EASTING: 529,225.692
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,390,900.221 EASTING: 529,069.795
<b>AZIMUTH POINT LOCATION-1 (AZL1):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,388,988.625 EASTING: 531,197.313
<b>AZIMUTH POINT LOCATION-2 (AZL2):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,388,690.685 EASTING: 531,412.953
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,388,677.399 EASTING: 531,418.796

REVISIONS:	COMPANY:	<b>10/01/2021</b>	
	<b>SWN</b> Production Company, LLC	<b>swn</b> Production Company™	
	OPERATOR'S	WILLIAM RITCHEA WTZ	API#
	WELL #:	8H	47-103-03371
	DISTRICT:	COUNTY:	STATE:
	PROCTOR	WETZEL	WV
			DATE: 08-18-2021
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2