

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

API 47 - 103 - 03368 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 205H
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 4,391,140.935 Easting 529,234.829
Landing Point of Curve Northing 4,391,438.320 Easting 529,537.393
Bottom Hole Northing 4,394,392.472 Easting 526,156.992

Elevation (ft) 1,562.9' 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 1/14/2021 Date drilling commenced 2/9/2021 Date drilling ceased 3/21/2021
Date completion activities began 5/12/2021 Date completion activities ceased 6/11/2021
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

Reviewed by:

10/01/2021

API 47- 103 - 03368 Farm name WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA Well number WILLIAM RITCHEA Wtz 205H

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	592	NEW	J-55/54.5#		Y; 40 BBLs
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,973	NEW	J-55/36#		Y; 66 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	22,928	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	615	15.60	1.19	731.85	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	1,132	15.60	1.18	1,335.76	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,092	15.00	1.23	5,033.16	SURFACE	24
Tubing							

Drillers TD (ft) 22,928' Loggers TD (ft) 22,928'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,879'

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:	47-103-03368-01-00
Operator Name:	Southwestern Energy
Well Name and Number:	WILLIAM RITCHEA WTZ 205
Latitude:	39.66958492
Longitude:	-80.65914771
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,426
Total Base Water Volume (gal):	25,399,372
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	90.26960	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.43492	

Econo-CI200	SWN Well Services	Corrosion Inhibitor				
				Listed Below		
SWN FRW-11LC	SWN Well Services	Friction Reducer				
				Listed Below		
Tolicide PS 50A	SWN Well Services	Biocide				
				Listed Below		
Ecopol-FEAC	SWN Well Services	Iron Control				
				Listed Below		
HCL	SWN Well Services	Solvent				
				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	9.18189
		Hydrochloric Acid	7647-01-0	15.00000	0.05736
		Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.03594
		Tetrakis	55566-30-8	55.00000	0.00757
		Glycerin	56-81-5	50.00000	0.00299

			Ammonium Chloride	12125-02-9	2.00000	0.00288
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00216
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00216
			Acetic Acid	64-19-7	37.50000	0.00076
			Diethylenetriamine penta	15827-60-8	10.00000	0.00060
			Methanol	67-56-1	80.00000	0.00047
			Citric Acid	77-92-9	22.50000	0.00046
			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 205H ST1 47103033680100

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)	3268.00	3267.00	3358.00	3327.00	
Rhinstreet (shale)	7077.00	6877.00	7584.00	7333.00	
Middlesex (shale)	7584.00	7333.00	7716.00	7425.00	
Burket (shale)	7716.00	7425.00	7766.00	7452.00	
Tully (ls)	7766.00	7452.00	7800.00	7471.00	
Mahantango (shale)	7800.00	7471.00	8016.00	7550.00	
Marcellus (shale)	8016.00	7550.00	NA	NA	GAS

**WILLIAM RITCHEA WTZ 205H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	5/6/2021	22,838	22,747	36
2	5/12/2021	22,713	22,534	36
3	5/13/2021	22,500	22,322	36
4	5/13/2021	22,288	22,108	36
5	5/14/2021	22,075	21,896	36
6	5/14/2021	21,862	21,683	36
7	5/15/2021	21,649	21,473	36
8	5/15/2021	21,437	21,257	36
9	5/15/2021	21,224	21,045	36
10	5/16/2021	21,011	20,832	36
11	5/16/2021	20,798	20,617	36
12	5/17/2021	20,588	20,406	36
13	5/17/2021	20,373	20,194	36
14	5/17/2021	20,160	19,981	36
15	5/18/2021	19,947	19,766	36
16	5/18/2021	19,739	19,555	36
17	5/19/2021	19,522	19,343	36
18	5/19/2021	19,309	19,130	36
19	5/19/2021	19,096	18,920	36
20	5/19/2021	18,884	18,704	36
21	5/20/2021	18,671	18,490	36
22	5/20/2021	18,461	18,279	36
23	5/20/2021	18,245	18,066	36
24	5/21/2021	18,033	17,853	36
25	5/21/2021	17,820	17,641	36
26	5/21/2021	17,607	17,428	36
27	5/21/2021	17,395	17,215	36
28	5/21/2021	17,182	17,003	36
29	5/22/2021	16,966	16,790	36
30	5/22/2021	16,756	16,577	36
31	5/22/2021	16,544	16,368	36
32	5/22/2021	16,331	16,152	36
33	5/22/2021	16,118	15,939	36
34	5/22/2021	15,905	15,726	36
35	5/23/2021	15,693	15,513	36
36	5/23/2021	15,480	15,301	66
37	5/23/2021	15,267	15,088	36
38	5/24/2021	15,058	14,875	36
39	5/24/2021	14,842	14,662	36
40	5/24/2021	14,629	14,450	36
41	5/24/2021	14,416	14,237	36
42	5/25/2021	14,199	14,024	36
43	5/25/2021	13,991	13,811	36

**WILLIAM RITCHEA WTZ 205H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	5/25/2021	13,778	13,599	36
45	5/25/2021	13,565	13,384	36
46	5/27/2021	13,352	13,173	36
47	5/27/2021	13,140	12,960	36
48	5/28/2021	12,927	12,748	36
49	5/29/2021	12,714	12,535	36
50	5/31/2021	12,502	12,322	36
51	5/31/2021	12,289	12,110	36
52	5/31/2021	12,076	11,897	36
53	6/1/2021	11,863	11,684	36
54	6/1/2021	11,651	11,471	36
55	6/1/2021	11,438	11,259	36
56	6/2/2021	11,225	11,046	36
57	6/2/2021	11,012	10,833	36
58	6/3/2021	10,800	10,620	36
59	6/3/2021	10,587	10,408	36
60	6/4/2021	10,374	10,195	36
61	6/4/2021	10,161	9,982	36
62	6/4/2021	9,949	9,769	36
63	6/5/2021	9,736	9,557	36
64	6/5/2021	9,523	9,344	36
65	6/6/2021	9,310	9,131	36
66	6/7/2021	9,098	8,918	36
67	6/7/2021	8,885	8,706	36
68	6/8/2021	8,672	8,493	36
69	6/8/2021	8,459	8,280	36
70	6/9/2021	8,247	8,067	36

WILLIAM RITCHEA Wtz 205H

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	70.7	8,374	8,621	3,233	104,680	4,511	0
2	5/13/2021	74.4	8,395	6,205	4,475	306,050	9,780	0
3	5/13/2021	80	8,026	5,623	4,522	314,790	11,008	0
4	5/14/2021	79.8	8,311	5,498	4,510	307,505	9,395	0
5	5/14/2021	77.2	8,762	8,692	4,248	309,440	9,023	0
6	5/14/2021	95.8	9,040	6,092	4,883	301,250	8,959	0
7	5/15/2021	85	8,930	6,269	4,532	306,400	9,272	0
8	5/15/2021	85.8	9,058	5,930	4,852	316,510	9,114	0
9	5/16/2021	86.2	9,000	6,134	4,800	313,740	9,274	0
10	5/16/2021	85.8	9,023	5,949	4,562	311,870	9,146	0
11	5/17/2021	84.7	9,041	6,460	4,669	313,960	9,054	0
12	5/17/2021	85.2	9,048	5,266	4,350	309,850	9,198	0
13	5/17/2021	85.3	9,130	6,298	4,862	312,400	8,842	0
14	5/17/2021	86.4	9,076	5,994	4,562	311,130	9,053	0
15	5/18/2021	87.7	9,081	2,873	4,760	312,660	9,079	0
16	5/19/2021	92.8	9,143	6,082	4,411	314,620	9,211	0
17	5/19/2021	86.7	8,967	5,916	4,483	312,730	8,831	0
18	5/19/2021	90.8	9,007	5,824	4,757	311,030	9,278	0
19	5/19/2021	88.4	9,077	6,036	4,680	307,040	8,990	0
20	5/20/2021	86.3	8,701	5,960	4,340	310,630	10,335	0
21	5/20/2021	86.4	8,564	6,355	4,616	314,760	9,049	0
22	5/20/2021	97.3	8,644	6,304	4,361	315,500	8,891	0
23	5/21/2021	95.2	9,069	6,785	4,952	311,070	8,628	0
24	5/21/2021	90.6	8,800	6,255	4,163	304,260	8,885	0
25	5/21/2021	92.6	8,723	6,510	4,113	310,870	9,412	0
26	5/21/2021	91.9	8,954	6,112	4,997	316,970	9,081	0
27	5/21/2021	79.4	8,999	6,620	4,610	315,400	8,838	0
28	5/22/2021	86.7	8,912	6,103	4,650	309,290	8,622	0
29	5/22/2021	98	9,078	6,361	4,529	307,660	8,696	0
30	5/22/2021	90	9,015	6,725	4,235	312,260	8,777	0
31	5/22/2021	97.8	9,033	6,315	4,482	311,010	8,864	0
32	5/22/2021	85.6	8,659	6,761	4,490	313,070	8,655	0
33	5/22/2021	86.2	8,754	6,740	4,321	312,070	8,750	0
34	5/23/2021	89.1	8,582	6,045	4,425	313,520	8,854	0
35	5/23/2021	91.1	8,937	6,503	4,249	305,640	8,678	0
36	5/23/2021	92	8,283	6,239	4,625	306,900	9,372	0
37	5/23/2021	91.3	8,541	6,310	4,675	306,200	8,408	0
38	5/24/2021	93.9	9,039	6,947	4,811	307,730	8,413	0
39	5/24/2021	95.6	8,911	6,355	4,514	315,270	8,779	0
40	5/24/2021	84.4	8,692	6,788	4,673	310,042	8,454	0
41	5/24/2021	88.3	8,988	6,603	4,843	309,660	8,163	0
42	5/25/2021	96.7	8,911	7,020	4,810	310,130	8,396	0
43	5/25/2021	99.7	9,036	6,473	4,570	312,200	8,707	0
44	5/25/2021	91.4	8,861	6,346	4,624	312,320	8,617	0
45	5/26/2021	97	8,630	5,811	4,115	306,710	8,561	0

**WILLIAM RITCHEA WTZ 205H
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
46	5/27/2021	99	8,664	5,992	4,521	313,600	8,656	0
47	5/28/2021	92.9	8,315	6,608	4,102	315,680	8,416	0
48	5/29/2021	99.4	8,790	5,892	4,102	304,520	8,155	0
49	5/29/2021	95.1	8,471	6,088	4,230	311,990	8,317	0
50	5/31/2021	92.7	8,688	7,989	4,587	310,310	8,481	0
51	5/31/2021	96	8,568	6,604	4,498	308,870	8,567	0
52	5/31/2021	95.4	8,186	6,348	4,275	312,340	8,225	0
53	6/1/2021	98.9	8,913	6,530	4,132	312,600	8,564	0
54	6/1/2021	98.3	8,703	6,513	4,225	312,470	8,763	0
55	6/2/2021	96.4	8,195	6,708	4,871	306,590	8,044	0
56	6/2/2021	98.9	8,799	6,640	4,128	314,900	8,356	0
57	6/3/2021	93	7,954	6,685	4,883	308,260	8,146	0
58	6/3/2021	95	8,216	7,012	4,681	313,750	8,288	0
59	6/4/2021	98.2	8,161	6,587	4,526	304,900	8,169	0
60	6/4/2021	95.6	8,757	6,679	4,256	311,820	8,173	0
61	6/4/2021	96.8	8,027	6,513	4,244	310,560	8,341	0
62	6/5/2021	98.3	8,027	6,596	4,486	306,370	8,092	0
63	6/5/2021	98.1	8,335	6,583	4,412	316,660	8,238	0
64	6/6/2021	97.7	8,253	6,880	4,438	309,420	8,207	0
65	6/7/2021	97.3	8,019	6,225	4,911	310,780	8,184	0
66	6/7/2021	97.6	8,556	6,205	4,585	314,455	8,263	0
67	6/8/2021	96.9	7,993	6,489	5,060	313,900	8,187	0
68	6/8/2021	99.1	8,125	6,317	4,622	317,380	8,255	0
69	6/9/2021	99.9	8,036	6,176	4,454	308,690	8,258	0
70	6/9/2021	99.9	7,829	6,872	4,939	309,960	7,893	0

Latitude: 39°42'30"

SURFACE HOLE 9,608'

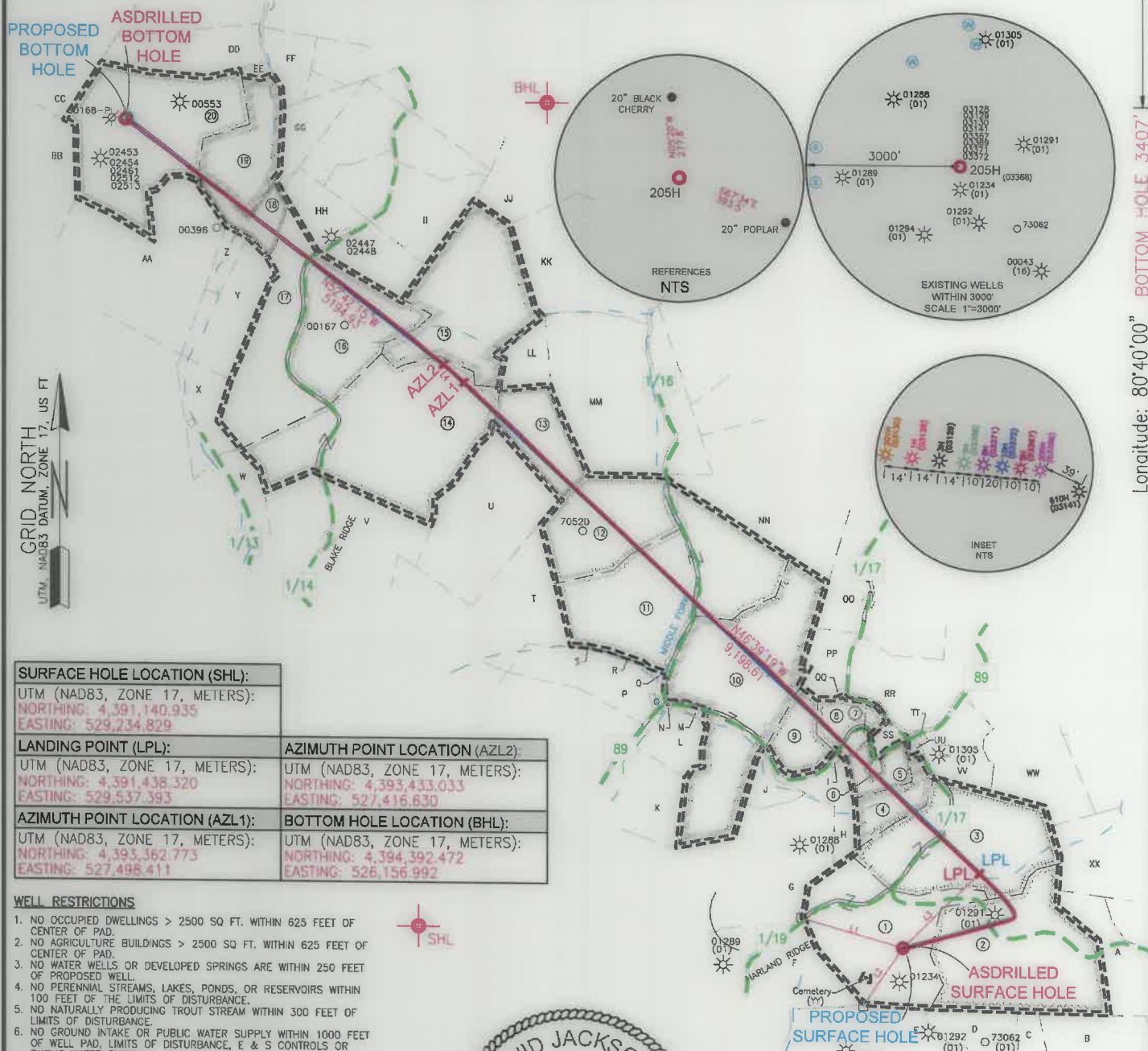
Latitude: 39°42'30"

BOTTOM HOLE 7,945'

JACKSON SURVEYING INC.

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

Table with columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains data for lines L1, L2, L3, L4.



SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,391,140.935
EASTING: 529,234.829

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,391,438.320
EASTING: 529,537.393

AZIMUTH POINT LOCATION (AZL2):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,393,433.033
EASTING: 527,416.630

AZIMUTH POINT LOCATION (AZL1):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,393,362.773
EASTING: 527,498.411

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,394,392.472
EASTING: 526,156.992

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.

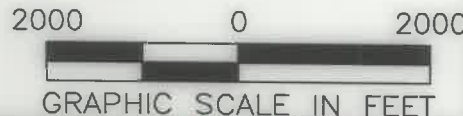
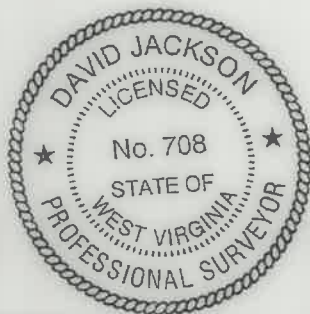
NOTES ON SURVEY

- 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 PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSERTS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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

SWN

Production Company, LLC

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 ELEVATION: GRADE GPS (NAVD 88, US FT)

WILLIAM RITCHEA WTZ
OPERATOR'S WELL #: 205H
API WELL #: 47 103 03368
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: FISH CREEK (HUC-10)
DISTRICT: PROCTOR COUNTY: WETZEL
SURFACE OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA
OIL & GAS ROYALTY OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA
ELEVATION: 1562.9'
QUADRANGLE: WILEYVILLE, WV
ACREAGE: ±62.00
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

Table with columns: LEGEND, REVISIONS, DATE. Includes symbols for proposed surface hole, existing wellhead, landing point, existing water well, existing spring, surveyed boundary, drilling unit, lease boundary, asdrilled path, proposed path.

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	DUELLEY BERNARD LEE ETAL & HALL SUSAN (S)	12-0015-22
3	LEMASTERS H C HRS & MANKER ; CHARLES V REVOCABLE LIVING TRUST (S)	12-0015-18
4	RITCHEA GARY A & ALICIA L (S)	12-0015-15
5	URBANEK SCOTT J & CHRYSTAL A (S)	12-0015-14
6	COX JAMES WILLIAM JR (S)	12-0015-14.1
7	URBANEK SCOTT J & CHRYSTAL A (S)	12-0015-03
8	RITCHEA WILLIAM D ; RITCHEA SHIRLEY (S)	12-0015-02
9	RITCHEA WILLIAM D ; RITCHEA SHIRLEY E (S)	12-0015-13.2
10	RITCHEA WILLIAM D & SHIRLEY E (S)	12-0014-09
11	GODDARD WAYNE (S)	12-0009-46
12	WOODSTUFF JOYCE K (S)	12-0009-44
13	BLAKE VERIL JEROME (S)	12-0009-42
14	TEEL GAY & DEWEY (S)	12-0009-41
15	BLAKE VERIL JEROME (S)	12-0009-21
16	LOWE MICHAEL S (S)	12-0009-31.1
17	GREATHOUSE JOHNNY K II ; GREATHOUSE CHELSEA P (S)	12-0009-31
18	HOHMAN ALBERT L & MARY L REVOCABLE LIVING TRUST (S)	12-0009-18
19	HOHMAN ALBERT L & MARY L REVOCABLE LIVING TRUST (S)	12-0009-10
20	BERISFORD BRENT ; BERISFORD CHRIS (S)	12-0009-02

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	HEETER HAROLD JR ETAL	12-0015-23	AA	KELLEY MARGARET SUE	12-0009-17
B	BROWN SANDY K	12-0015-28	BB	SCHEIBELHOOD EDWARD & SANDRA	12-0009-1
C	BROWN SANDY K	12-0015-27	CC	SCHEIBELHOOD KEITH MICHAEL ; SCHEIBELHOOD SALLY L	12-0004-31
D	DUELLEY BERNARD LEE ET AL & HALL SUSAN	12-0015-26	DD	HAYHURST COMPANY; HUGGINS MICHAEL A & PATRICK W HUGGINS PATRICK DEAN HUGGINS	12-0009-3
E	DUELLEY BERNARD LEE ET AL & HALL SUSAN	12-0015-25	EE	HOHMAN ALBERT L & MARY L REVOCABLE LIVING TRUST	12-0009-4
F	PITOSCIA WILLIAM R	12-0014-27	FF	HOHMAN ALBERT L & MARY L REVOCABLE LIVING TRUST	12-0009-5
G	PITOSCIA WILLIAM R	12-0014-16	GG	HOHMAN ALBERT L & MARY L REVOCABLE LIVING TRUST	12-0009-11
H	URBANEK SCOTT J & CHRYSTAL A	12-0015-13	HH	STARKEY JOHN S; JOHN W STARKEY	12-0009-19
I	URBANEK SCOTT & CHRYSTAL	12-0015-13.1	II	BLAKE LONNIE E	12-0009-20
J	RITCHEA WILLIAM D & SHIRLEY E	12-0015-34	JJ	SHULUGA ANDREW D & ANDREA M REVOCABLE TRUST	12-0009-13
K	LASURE MICHAEL E. & VELVA C.	12-0014-06	KK	GODDARD WAYNE L	12-0009-22
L	HUGGINS WAYNE & SANDRA	12-0014-09.1	LL	BLAKE VERIL JEROME	12-0009-32
M	LEMASTERS TONY R & ROBIN M	12-0014-09.2	MM	GODDARD WAYNE L	12-0009-33
N	HUGGINS WAYNE & SANDRA	12-0014-08	NN	HAESSLY HARDWOOD LUMBER CO	12-0010-23
O	HUGGINS WAYNE & SANDRA M	12-0014-07	OO	HUGGINS JOSEPH DEAN ; HUGGINS BOBBIE SUE	12-0010-31
P	HUGGINS WAYNE & SANDRA M	12-0009-46.1	PP	HUGGINS JOSEPH DEAN ; HUGGINS BOBBIE SUE	12-0015-1
Q	GODDARD WAYNE	12-0009-46.4	QQ	RITCHEA WILLIAM D ; RITCHEA SHIRLEY	12-0015-1.1
R	HUGGINS WAYNE & SANDRA M	12-0009-46.2	RR	HAESSLY LAND AND TIMBER LLC	12-0015-4
S	GODDARD WAYNE	12-0009-46.3	SS	STILES MARILYN DIANE ; STILES JESSIE GLENN	12-0015-14.2
T	KEENEY NORMAN E JR & NANCY M	12-0009-45	TT	STILES MARILYN DIANE ; STILES JESSIE GLENN	12-0015-16
U	BLAKE VERIL JEROME	12-0009-40	UU	RITCHEA GARY	12-0015-15.1
V	TAYLOR JAMES S	12-0009-39	VV	HAESSLY LAND AND TIMBER LLC	12-0015-17
W	PENDELBURY ROBERT C & DENISE M	12-0009-38	WW	HAESSLY LAND AND TIMBER LLC	12-0015-5
X	HOHMAN ALBERT & MARY RLT ; HOHMAN JOE	12-0009-29.2	XX	LEMASTERS DOLLY G EST	12-0015-19
Y	HOHMAN ALBERT & MARY RLT ; HOHMAN JOE	12-0009-17.1	YY	LEMASTERS CEMETERY	12-15-20
Z	HOHMAN ALBERT & MARY RLT ; HOHMAN JOE	12-0009-17.2			

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,140.983 EASTING: 529,234.796
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,439.414 EASTING: 529,538.076
AZIMUTH POINT LOCATION (AZL1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,393,577.123 EASTING: 527,480.007
AZIMUTH POINT LOCATION (AZL2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,393,433.261 EASTING: 527,414.115
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,394,396.720 EASTING: 526,162.418

REVISIONS:	COMPANY:	10/01/2021 R-V+°	
	SWN Production Company, LLC	swN Production Company™	
	OPERATOR'S WELL #:	WILLIAM RITCHEA WTZ 205H	API# 47-103-03368
	DISTRICT: PROCTOR	COUNTY: WETZEL	STATE: WV
			DATE: 08-18-2021 DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2