

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

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Office of Oil and Gas

AUG 22 2017

WV Department of
Environmental Protection

API 47-103-03149 County WETZEL District PROCTOR
Quad WILEYVILLE, WV Pad Name CONSTANCE TAYLOR-WTZ-PAD1 Field/Pool Name VICTORY FIELD WET
Farm name CONSTANCE A. TAYLOR Well Number CONSTANCE TAYLOR 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 4,389,477.083 Easting 527,516.238
Landing Point of Curve Northing 4,389,691.857 Easting 527,479.581
Bottom Hole Northing 4,390,895.707 Easting 526,216.501

Elevation (ft) 1,430.2' 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 08/11/2016 Date drilling commenced 12/21/2016 Date drilling ceased 01/27/2017
Date completion activities began 05/09/2017 Date completion activities ceased 05/20/2017
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 367' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1145' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1371' Cavern(s) encountered (Y/N) depths N

Is coal being mined in area Y/N

APPROVED

NAME: Sw n A
DATE: 9-13-17

Reviewed by:
DmH
10/06/2017

API 47- 103 - 03149 Farm name CONSTANCE A. TAYLOR Well number CONSTANCE TAYLOR 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	126	NEW	J-55/94#		Y
Surface	17.5	13.375	471	NEW	J-55/54.5#		Y; 34 BBLs RETURNED
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2881	NEW	J-55/36#		Y; 65 BBLs RETURNED
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	13576	NEW	HCP-110/20#		Y
Tubing		2.375	7720	NEW	P110-4.7#		N
Packer type and depth set							

Comment Details _____

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CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WV Department of Environmental Protection WOP (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	215	15.6	1.20	258	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	1124	15.6	1.18	1326.32	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2350	15.6	1.19	279.65	SURFACE	24
Tubing							

Drillers TD (ft) 13,576' Loggers TD (ft) 13,576'

Deepest formation penetrated MARCELLUS Plug back to (ft) N/A

Plug back procedure _____

Kick off depth (ft) 6,715'

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 _____

API 47- 103 - 03149

Farm name CONSTANCE A. TAYLOR

Well number CONSTANCE TAYLOR WTZ 5H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen (cubic ft.)
		SEE	ATTACHMENT	2				

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Please insert additional pages as applicable.

API 47- 103 - 03149 Farm name CONSTANCE A. TAYLOR Well number CONSTANCE TAYLOR WTZ 5H

PRODUCING FORMATION(S)	DEPTHS		
MARCELLUS	7,416.53'	TVD	7,803' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1,900 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 3,557 mcfpd Oil 77 bpd NGL _____ bpd Water 15 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	
	0		0		
	SEE	ATTACHMENT	3		

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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 ALLIED OIL AND GAS
Address 8711 W C R 127 City MIDLAND State TX Zip 79706

Stimulating Company KEANE
Address 2121 SAGE ROAD City HOUSTON State TX Zip 77056

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139
Signature *Denise Grantham* Title REGULATORY TECHNICIAN Date 8/21/2017

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

Well Name:

CONSTANCE TAYLOR Wtz 5H

47103031490000

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	N.A.	N.A.	367.00	367.00	
Top of Salt Water	1145.00	1144.99	N.A.	N.A.	
Pittsburgh Coal	1371.00	1370.99	1379.00	1378.99	
Big Injun (ss)	2649.00	2648.86	2827.00	2826.85	
Berea (siltstone)	3186.00	3185.84	6802.76	6781.72	
Rhinestreet (shale)	6802.76	6781.72	7127.26	7078.30	
Cashaqua (shale)	7127.26	7078.30	7283.93	7198.42	
Middlesex (shale)	7283.93	7198.42	7431.47	7288.80	
Burket (shale)	7431.47	7288.80	7475.58	7311.58	
Tully (ls)	7475.58	7311.58	7526.77	7335.73	
Mahantango (shale)	7526.77	7335.73	7803.00	7416.53	
Marcellus (shale)	7803.00	7416.53	N.A.	N.A.	GAS

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CONTANCE TAYLOR WTZ 5H
PERF SUMMARY

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	5/9/2017	13,357	13,466	42
2	5/10/2017	13,213	13,323	42
3	5/10/2017	13,070	13,180	42
4	5/10/2017	12,927	13,036	42
5	5/10/2017	12,784	12,893	42
6	5/10/2017	12,641	12,750	42
7	5/10/2017	12,497	12,607	42
8	5/10/2017	12,354	12,464	42
9	5/11/2017	12,211	12,320	42
10	5/11/2017	12,068	12,177	42
11	5/11/2017	11,925	12,034	42
12	5/11/2017	11,781	11,891	42
13	5/11/2017	11,638	11,748	42
14	5/11/2017	11,495	11,604	42
15	5/11/2017	11,352	11,461	42
16	5/12/2017	11,209	11,318	42
17	5/12/2017	11,065	11,175	42
18	5/12/2017	10,922	11,032	42
19	5/12/2017	10,779	10,888	42
20	5/12/2017	10,636	10,745	42
21	5/12/2017	10,493	10,602	42
22	5/12/2017	10,349	10,459	42
23	5/13/2017	10,206	10,316	42
24	5/13/2017	10,063	10,172	42
25	5/13/2017	9,920	10,029	42
26	5/13/2017	9,777	9,886	42
27	5/13/2017	9,633	9,743	42
28	5/13/2017	9,490	9,600	42
29	5/13/2017	9,347	9,456	42
30	5/13/2017	9,204	9,313	42
31	5/14/2017	9,061	9,170	42
32	5/14/2017	8,917	9,027	42
33	5/14/2017	8,774	8,884	42
34	5/14/2017	8,631	8,740	42
35	5/14/2017	8,488	8,597	42
36	5/14/2017	8,345	8,454	42
37	5/14/2017	8,201	8,311	42
38	5/14/2017	8,058	8,168	42
39	5/14/2017	7,915	8,024	42
40	5/15/2017	7,772	7,881	42

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CONSTANCE TAYLOR Wtz 5H
FRAC STAGE SUMMARY

STAGE NUM	Stim 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
1	5/9/2017	85	8,099	8,430	4,421	275,660	4,829	
2	5/10/2017	91	8,136	8,538	4,238	280,348	4,815	
3	5/10/2017	93	8,301	8,729	4,143	277,520	4,894	
4	5/10/2017	91	8,307	8,651	4,307	277,460	4,914	
5	5/10/2017	92	8,262	8,545	4,399	280,020	4,614	
6	5/10/2017	92	8,005	8,371	4,416	275,640	4,592	
7	5/10/2017	95	8,058	8,434	4,482	274,392	4,588	
8	5/10/2017	94	8,087	8,270	4,385	279,080	4,666	
9	5/11/2017	97	8,111	8,434	4,946	274,540	4,771	
10	5/11/2017	95	8,397	8,749	4,856	280,900	4,784	
11	5/11/2017	95	8,406	8,938	4,967	287,500	4,578	
12	5/11/2017	99	8,342	8,609	4,622	280,240	4,714	
13	5/11/2017	92	8,145	8,327	4,342	275,540	4,539	
14	5/11/2017	90	8,159	8,537	4,870	278,060	4,699	
15	5/11/2017	99	8,169	8,372	4,660	279,640	4,637	
16	5/12/2017	94	8,298	8,587	5,291	280,140	4,602	
17	5/12/2017	98	8,164	8,461	4,500	279,620	4,857	
18	5/12/2017	98	8,305	8,590	4,434	279,860	4,439	
19	5/12/2017	98	8,228	8,491	4,407	277,540	4,514	
20	5/12/2017	98	8,124	8,568	4,251	274,140	4,440	
21	5/12/2017	99	8,229	8,466	4,599	274,600	4,409	
22	5/12/2017	100	8,110	8,377	4,354	275,600	4,392	
23	5/13/2017	96	8,255	8,559	4,085	277,300	4,503	
24	5/13/2017	98	8,274	8,525	4,659	272,740	4,345	
25	5/13/2017	99	8,196	8,512	4,274	274,529	4,476	
26	5/13/2017	99	8,048	8,238	4,846	278,500	4,479	
27	5/13/2017	100	8,237	8,535	4,882	279,240	4,364	
28	5/13/2017	100	7,994	8,209	3,947	283,840	4,502	
29	5/13/2017	98	8,017	8,401	4,537	274,100	4,377	
30	5/13/2017	100	7,786	8,015	4,388	280,520	4,461	
31	5/14/2017	100	7,900	8,192	4,111	280,720	4,256	
32	5/14/2017	99	8,103	8,451	4,528	282,880	4,421	
33	5/14/2017	100	7,792	8,323	4,363	276,820	4,334	
34	5/14/2017	100	8,004	8,465	4,864	277,120	4,182	
35	5/14/2017	101	7,825	8,130	4,296	273,960	4,394	
36	5/14/2017	102	7,473	7,945	4,323	276,540	4,189	
37	5/14/2017	100	7,566	8,823	4,456	274,040	4,243	
38	5/14/2017	101	7,794	8,416	4,599	288,140	4,153	
39	5/14/2017	102	7,497	8,208	4,487	288,500	4,245	
40	5/15/2017	71	7,889	9,102	4,182	287,400	9,755	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/10/2017
Job End Date:	5/15/2017
State:	West Virginia
County:	Wetzel
API Number:	47-103-03149-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Constance Taylor 5H
Latitude:	39.65465036
Longitude:	-80.67925400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,427
Total Base Water Volume (gal):	7,641,728
Total Base Non Water Volume:	0



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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
Water	SWN	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	83.33132	None
Sand (Proppant)	Keane	Proppant					
			Crystalline silica: Quartz (SiO2)	14808-60-7	100.00000	14.56356	None
Hydrochloric Acid (15%)	Keane	Acidizing					
			Water	7732-18-5	85.00000	1.67374	None
			Hydrochloric Acid	7647-01-0	15.00000	0.29537	None
KFR-17	Keane	Friction Reducer					
			Distillates (petroleum), hydrotreated light	64742-47-8	45.00000	0.05595	None
			ethanediol	107-21-1	10.00000	0.01243	None
			Fatty alcohols ethoxylated	Proprietary	2.00000	0.00249	None
			Alcohols, C12-16, ethoxylated	68213-24-1	2.00000	0.00249	None
KFEAC-30	Keane	Iron Control					
			acetic acid	64-19-7	60.00000	0.00498	None
			Citric acid	77-92-9	40.00000	0.00332	None
KAI-16	Keane	Acid Inhibitor					
			isopropanol	67-63-0	60.00000	0.00203	None

			Ethoxylated Fatty Alcohol	Proprietary	30.00000	0.00101	None
			Aromatic aldehyde	Proprietary	10.00000	0.00034	None
			Ethoxylated Alcohol	Proprietary	10.00000	0.00034	None
			Alkoxylated fatty amine	Proprietary	5.00000	0.00017	None
			Methanol	67-56-1	1.00000	0.00003	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	1.67374	
			Ethanediol	107-21-1	10.00000	0.01243	
			Citric acid	77-92-9	40.00000	0.00332	
			Alcohols, C12-16, ethoxylated	68213-24-1	2.00000	0.00249	
			Fatty alcohols ethoxylated	Proprietary	2.00000	0.00249	
			Ethoxylated Fatty Alcohol	Proprietary	30.00000	0.00101	
			Aromatic aldehyde	Proprietary	10.00000	0.00034	
			Ethoxylated Alcohol	Proprietary	10.00000	0.00034	
			Alkoxylated fatty amine	Proprietary	5.00000	0.00017	
			Methanol	67-56-1	1.00000	0.00003	
			Water	7732-18-5	92.50000		
			ammonium chloride	12125-02-9	5.00000		
			Oxyalkylated alcohol	Proprietary	5.00000		

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

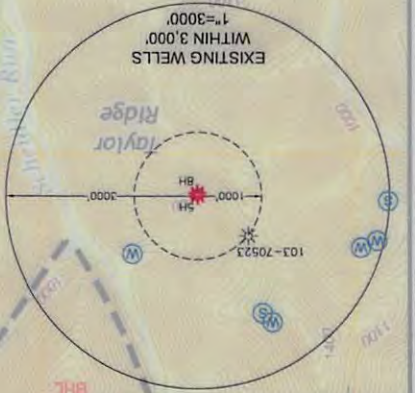
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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RETNEW Associates, Inc.
 27 Travato Street, Suite 101
 Bridgeport, WV 26330
 Phone (800) 758-8395
 Email: retnew@retnew.com
 Website: www.retnew.com

UTM (NAD83, ZONE 17, METERS):	EASTING: 527,516.238
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,389,477.082
UTM (NAD83, ZONE 17, METERS):	EASTING: 527,479.581
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,389,691.857
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UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,390,895.707
UTM (NAD83, ZONE 17, METERS):	EASTING: 527,516.236
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,389,477.272
UTM (NAD83, ZONE 17, METERS):	EASTING: 527,479.574
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,389,691.852
UTM (NAD83, ZONE 17, METERS):	EASTING: 526,207.452



NOTES ON SURVEY

- COORDINATE SYSTEM IS UTM, NAD 83 DATUM.
- SURFACE AND ROYALTY OWNER INFORMATION AND ESTABLISHED USING SURVEY GRADE GPS.
- PLOTTED FROM DEEDS AND/OR TAX PARCEL THEIR BOUNDARIES SHOWN HEREON WERE MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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. 2241



(+) DENOTES LOCATION OF WELL ON MINIMUM UNITED STATES TOPOGRAPHIC MAPS
 WDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034
 WELLS SURFACE LOCATIONS REFERENCED TO PROPOSED HORIZONTAL NTS
 SURFACE HOLE LOCATION (SH)
 SURFACE AND ROYALTY OWNER INFORMATION AND ESTABLISHED USING SURVEY GRADE GPS.
 PLOTTED FROM DEEDS AND/OR TAX PARCEL THEIR BOUNDARIES SHOWN HEREON WERE MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS SURVEY OF THE PARCELS SHOWN HEREON.
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 NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

WATERSHED: LITTLE FISHING CREEK
 DISTRICT: PROCTOR
 COUNTY: WETZEL
 SURFACE OWNER: CONSTANCE A. TAYLOR
 OIL & GAS ROYALTY OWNER: CONSTANCE A. TAYLOR
 DRILL DEEPER: REFRILL
 CONVERT TO PLUG & ABANDON: CLEAN OUT & REPLUG
 TARGET FORMATION: MARCELLUS
 WELLS TYPE: OIL
 WASTE DISPOSAL
 PRODUCTION
 DEEP
 GAS
 LIQUID INJECTION
 STORAGE
 SHALLOW

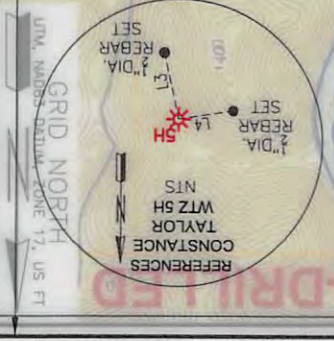
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW STATE: WV ZIP CODE: 26378
 DESIGNATED AGENT: DEE SOUTHALL
 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW STATE: WV ZIP CODE: 26378
 REVISIONS: 02-13-2017
 DATE: 02-13-2017
 ADDED PERMITTED COORDINATES 08-10-2017
 DRAWN BY: W. MCCLEAF
 SCALE: 1" = 2000'
 AS-DRILLED WELLS
 PERMITTED WELLS
 ABANDONED WELLS
 PLUGGED & ABANDONED WELLS
 CUT CONDUCTION

COMPLETION ID 2501161736
 DRAWING NO: 087569006
 WELL LOCATION PLAT



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 37°27'04" E	462.5'	SHL TO LANDMARK	
L2	S 31°41'50" W	1,219.0'	SHL TO LANDMARK	
L3	S 14°22'29" E	309.13'	SHL TO REF. PNT.	1/2" REBAR/CAP
L4	S 75°04'07" W	217.73'	SHL TO REF. PNT.	1/2" REBAR/CAP
L5	N 09°41'09" W	714.8'	SHL TO LP	
L6	N 46°22'31" W	5,724.7'	LP TO BHL	

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	CONSTANCE A. TAYLOR	12-18-00350000	43.50
2	BRENT PAUL BLAKE, ET AL	12-14-00320003	85.96
3	WALTER R. DICKIE, JR	12-14-00320001	2.75
4	LORRAINE M. CRISP	12-18-00040001	90.07
5	DARLENE ELLEN WOOD & WALTER R. DICKIE, JR	12-14-00210002	30.00
6	JAMES H. FOGG	12-14-00210001	66.45
7	BUSTER & BARBARA A. BLAKE	12-14-00120001	134.46



RETTEW

RETTEW Associates, Inc. 101
27 Traylor Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8388
Email: rette@rette.com
Website: www.rette.com

CRID NORTH
0 15 30
MULTI-MULTI-SHOW

Longitude: 80.40.00
Latitude: 39.40.00
3.242



GRAPHIC SCALE IN FEET
0 2000 4000



CITY: JANE LEW STATE: WV ZIP CODE: 26378 COUNTY: WETZEL COUNTY, WEST VIRGINIA COUNTY MAP NUMBER: 26378, EFFECTIVE DATE: SEPTEMBER 25, 2009.		NAME AND DISTANCE TO THE NEAREST STREAM: UN NAMED TRIBUTARY TO RUSH RUN IS LOCATED ±0.18 MILES EAST OF THE CENTER OF THE DRILL LOCATION. ELEVATION: 1430.2
DATE: 02-13-2017 REVISIONS: ADDED PERMITTED COORDINATES 08-10-2017 DRAWN BY: W. MCGEE SCALE: 1" = 2000' DRAWING NO: 08759908 TOPOGRAPHIC MAP 1738		WASTE DISPOSAL: <input checked="" type="checkbox"/> DEEP WELLS RESTRICTIONS: WELLS WITH A PERMITTED SURFACE HOLE OR BOTTOM HOLE SHALL BE CONSIDERED AS ABANDONED WELLS. WELLS SHALL NOT BE USED TO EXHAUST, STORE, OR DISPOSE OF LIQUID WASTE OR TO INJECT FLUIDS INTO ANY SUBSTRATE. WELLS SHALL NOT BE USED TO EXHAUST, STORE, OR DISPOSE OF SOLID WASTE. WELLS SHALL NOT BE USED TO EXHAUST, STORE, OR DISPOSE OF HAZARDOUS WASTE. WELLS SHALL NOT BE USED TO EXHAUST, STORE, OR DISPOSE OF RADIOACTIVE WASTE. WELLS SHALL NOT BE USED TO EXHAUST, STORE, OR DISPOSE OF OTHER WASTE PRODUCTS. WELLS SHALL NOT BE USED TO EXHAUST, STORE, OR DISPOSE OF OTHER WASTE PRODUCTS. WELLS SHALL NOT BE USED TO EXHAUST, STORE, OR DISPOSE OF OTHER WASTE PRODUCTS.
LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA WELL #: CONSTANCE TAYLOR WTS AD AS-BUILT QUAD: WILYVILLE, WV OPERATOR'S: CONSTANCE TAYLOR WTS AD AS-BUILT COMPANY: SWIN Production Company, LLC		LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING SURFACE HOLE / BOTTOM HOLE PROPOSED WELLHEAD EXISTING WELLHEAD AS-DRILLED WELLHEAD PERMITTED WELLHEAD ABANDONED WELL PLUGGED & ABANDONED WELL CUT CONDUCTOR COUNTY ROAD HIGHWAY INTERSTATE ACCESS ROAD PERMITTED WELLHEAD AS-DRILLED WELLHEAD EXISTING WELLHEAD EXISTING WATER WELL EXISTING SPRING WELLS WITH A PERMITTED SURFACE HOLE OR BOTTOM HOLE SHALL BE CONSIDERED AS ABANDONED WELLS.
SURFACE HOLE LOCATION: ESTIMATED DEPTH: 7.47, TVD 13.76, TMD GEOGRAPHIC (NAD83): LONGITUDE: 80.672241 LATITUDE: 39.824227 UTM ZONE: 18Q UTM EASTING: 710192.28 UTM NORTHING: 4258304.05 UTM SCALE FACTOR: 1.000017 UTM MERIDIONAL FLATTENING: 0.000001		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LONGITUDE: -80.684348 LATITUDE: 39.824227 UTM ZONE: 18Q UTM EASTING: 710192.28 UTM NORTHING: 4258304.05 UTM SCALE FACTOR: 1.000017 UTM MERIDIONAL FLATTENING: 0.000001

1706/36/1017

Latitude: 39°40'00" 3,542'

BHL Latitude: 39°42'30" 7,790'

Longitude: 80°40'00" 4,375'

BHL Longitude: 80°40'00" 14,878'

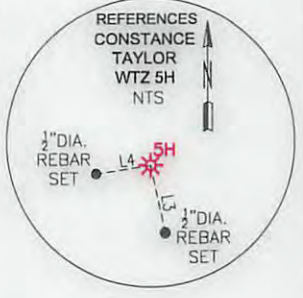


RETTEW Associates, Inc.
 27 Travata Street, Suite 101
 Bridgeport, WV 26330
 Phone (800) 738-8395
 Email: rettetw@rettetw.com
 Website: www.rettetw.com

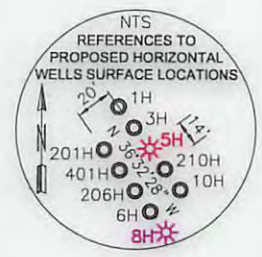
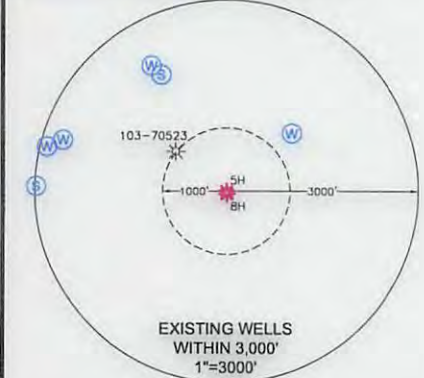
GRID NORTH
 UTM, NAD83 DATUM, ZONE 17, US FT

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 37°27'04" E	462.5'	SHL TO LANDMARK	
L2	S 31°41'50" W	1,219.0'	SHL TO LANDMARK	
L3	S 14°22'29" E	309.13'	SHL TO REF. PNT.	1/2"Ø REBAR/CAP
L4	S 75°04'07" W	217.73'	SHL TO REF. PNT.	1/2"Ø REBAR/CAP
L5	N 09°41'09" W	714.8'	SHL TO LP	
L6	N 46°22'31" W	5,724.7'	LP TO BHL	

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	CONSTANCE A. TAYLOR	12-18-00050000	43.50±
2	BRENT PAUL BLAKE, ET AL	12-14-00320003	85.96±
3	WALTER R. DICKIE, JR	12-14-00320001	2.75±
4	LORRAINE M. CRISP	12-18-00040001	90.07±
5	DARLENE ELLEN WOOD & WALTER R. DICKIE, JR	12-14-00210002	30.00±
6	JAMES H. FOGG	12-14-00210001	66.45±
7	BUSTER & BARBARA A. BLAKE	12-14-00120001	134.46±



- SURFACE HOLE LOCATION (SHL):**
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,389,477.082
 EASTING: 527,516.238
- LANDING POINT LOCATION (LP):**
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,389,691.857
 EASTING: 527,479.581
- BOTTOM HOLE LOCATION (BHL):**
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,390,895.707
 EASTING: 526,216.501
- SURFACE HOLE LOCATION (SHL):**
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,389,477.272
 EASTING: 527,516.236
- LANDING POINT LOCATION (LP):**
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,389,691.852
 EASTING: 527,479.574
- BOTTOM HOLE LOCATION (BHL):**
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,390,908.415
 EASTING: 526,207.452



- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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. 2241



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC

CONSTANCE TAYLOR WTZ
 OPERATOR'S WELL #: 5H
 API WELL #: 47 103 03149
 STATE COUNTY PERMIT

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

WATERSHED: LITTLE FISHING CREEK ELEVATION: ±1,430.2 (PAD AS-BUILT)

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: CONSTANCE A. TAYLOR ACREAGE: ±43.50

OIL & GAS ROYALTY OWNER: CONSTANCE A. TAYLOR ACREAGE: ±43.50

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) **As-Drilled**

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,427' TVD 13,576' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
 ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

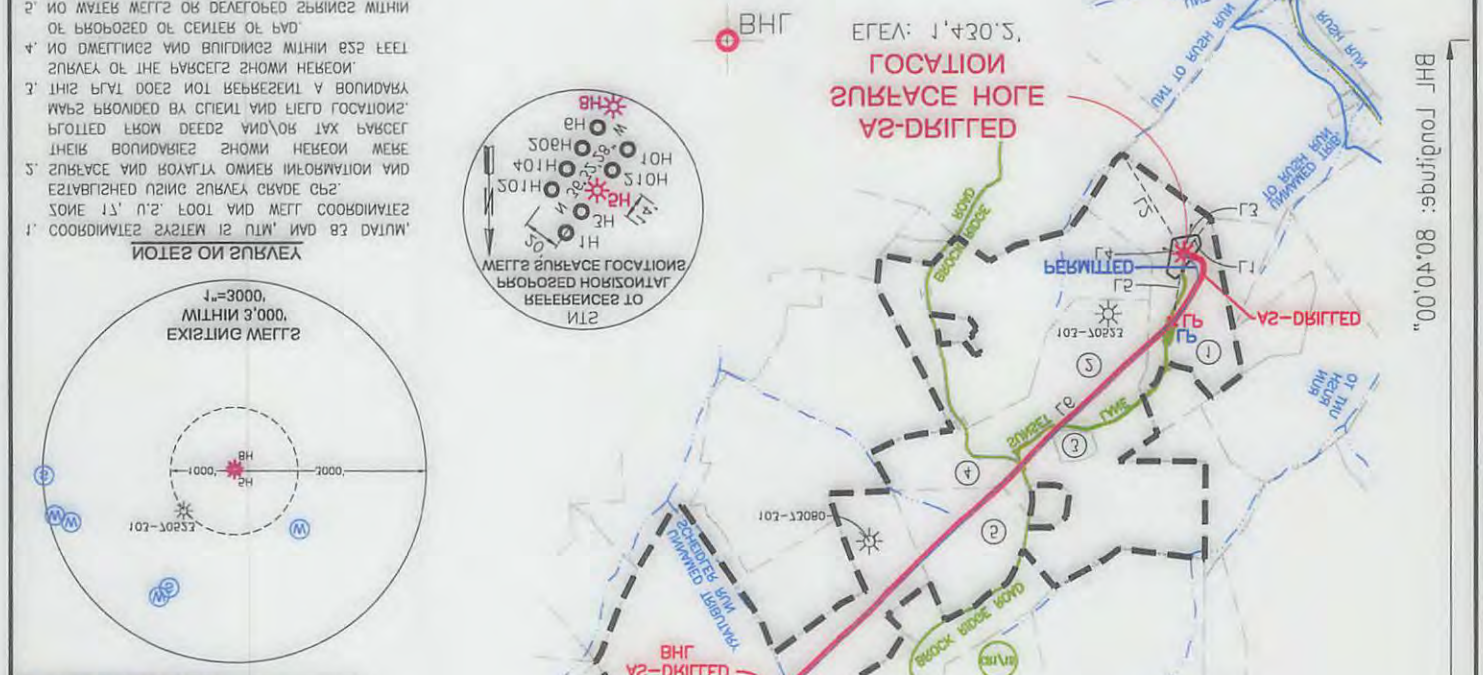
LEGEND:	REVISIONS:	DATE:
<ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD ABANDONED WELL PLUGGED & ABANDONED WELL CUT CONDUCTOR 	<ul style="list-style-type: none"> EXISTING SPRING EXISTING WATER WELL TIE LINE LEASE BOUNDARY ASDRILLED WELLPATH PERMITTED WELLPATH STREAM 	<ul style="list-style-type: none"> 02-13-2017 ADDED PERMITTED COORDINATES 08-10-2017

<input checked="" type="checkbox"/> CUL CONDUCTIONS	<input checked="" type="checkbox"/> PERMITTED METEORIC	<input checked="" type="checkbox"/> UNDIGGED METEORIC	<input checked="" type="checkbox"/> EXISTING WATER METEORIC	<input checked="" type="checkbox"/> EXISTING SWIRLS	ADDDED PERMITTED COORDINATES 08-10-2013
<input checked="" type="checkbox"/> UNDIGGED METEORIC	<input checked="" type="checkbox"/> UNDIGGED METEORIC	<input checked="" type="checkbox"/> EXISTING WATER METEORIC	<input checked="" type="checkbox"/> EXISTING SWIRLS	<input checked="" type="checkbox"/> EXISTING SWIRLS	DATE: 08-13-2013
OWNER: JAMES GEM	STATE: MA	ZIP CODE: 02238	CITY: JAMES GEM	STATE: MA	ZIP CODE: 02238
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300				DESIGNATED AGENCY: DEE SOUTHAMPT
LABEL INFORMATION: MASCETTOS			ESTIMATED DEPTH: 1'43", LAD 12'210, LMD		
COLLECT <input type="checkbox"/> BUREAU OF LANDS <input type="checkbox"/> SPECIAL OUT & RETURN <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIAL)			A2-DIGGED		
DIGIT <input type="checkbox"/> DIGIT DEEPEX <input type="checkbox"/> REDIGIT <input type="checkbox"/> EXPLANATION OF DIMENSIONS <input type="checkbox"/> BUREAU OFF OF FORMATION <input type="checkbox"/> BEFORE/DATE NEW FORMATION <input type="checkbox"/>					
OIG & GAS BOYLANDS OWNER: CONSTANCE A TAYLOR			ACCESSION: 743'20		
SURFACE OWNER: CONSTANCE A TAYLOR			ACCESSION: 743'20		
DISTRICT: BROOKS			COMPLIA: METSET		
MAINTENANCE: PLATE FISHING CREEK			CONVAYANCE: MIFELMITE MA		
MATERIAL: OIG <input type="checkbox"/> WATER DISTRICT <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> FLUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHUTTLE <input checked="" type="checkbox"/>			ELEVATION: 71'420'S (BYD A2-DIGIT)		

<p>CHARGESTON, MA 02034 801 21TH STREET OFFICE OF OIG & GAS MADEB UNITED STATES TOPOGRAPHIC MAPS (+) DENOTES FOCUSION OF MEIT ON</p>	ELEVATION: (NAD 88' US FT)	STATE	COMPLIA	PERMIT
	SOURCE OF GRADE OR SURFACE	BYD MET #:	74	103
ACCURACY: 1/300	DEGREE OF MINIMUM	OPERATOR'S MET #:	2H	
CONSTANCE TAYLOR WLS				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
REGULATIONS ISSUED AND DESCRIBED BY THE
THE INFORMATION RECEIVED BY LAW AND
MA KNOWLEDGE AND BELIEF AND SHOWS AT
THAT THIS PLAN IS CORRECT TO THE BEST OF
THE UNDERSIGNED HEREBY CERTIFY

300 FEET OF PERMITS OF DISTURBANCE:
1. NO INDIVIDUALS PRODUING FROM SURFACE WITHIN
THE PERMITS OF DISTURBANCE
2. BEHAVIORS OF METEORS WITHIN 100 FEET OF
E. NO BEHAVIOR SURFACE TUCKS, BONDS,
3. NO WATER METS OR DELAYED SWIRLS WITHIN
OF PROPOSED OF CENTER OF BYD
4. NO DUMPINGS AND BUILDINGS WITHIN 852 FEET
SURFACE OF THE SURFACE SHOWS HEREOF
5. THIS PLAN DOES NOT REPRESENT A VOLUNTARY
MAPS PROVIDED BY SPECIAL AND FIELD LOCATIONS
6. FOLDED FROM DEEDS AND/OR TAX MAPS
THEIR VOLUNTARIES SHOWS HEREOF WHERE
7. SURFACE AND BOYLANDS OWNER INFORMATION AND
ESTABLISHED (LAD) SURFACE GRADE OR
ZONE 13' N2' FOOT AND MET COORDINATES
1. COORDINATES SYSTEM IS PLM, AND 83 DAVUM



EASTING: 258'501'425	NORTHING: 4'280'808'412	PLM (NAD83' ZONE 13' METERS):
BOTTOM HOLE LOCATION (BNG):		
EASTING: 251'418'214	NORTHING: 4'288'881'825	PLM (NAD83' ZONE 13' METERS):
LANDING POINT LOCATION (G2):		
EASTING: 251'818'238	NORTHING: 4'288'411'315	PLM (NAD83' ZONE 13' METERS):
SURFACE HOLE LOCATION (2HG):		
EASTING: 258'518'201	NORTHING: 4'280'882'101	PLM (NAD83' ZONE 13' METERS):
BOTTOM HOLE LOCATION (BNG):		
EASTING: 251'418'281	NORTHING: 4'288'881'825	PLM (NAD83' ZONE 13' METERS):
LANDING POINT LOCATION (G2):		
EASTING: 251'818'238	NORTHING: 4'288'411'315	PLM (NAD83' ZONE 13' METERS):
SURFACE HOLE LOCATION (2HG):		

Website: www.bellem.com
Email: lcg@bellem.com
Phone (800) 338-8382
Bellem Associates, Inc.
33 Truro Road, Suite 101
Bellem Associates, Inc.

Professional Surveyor Seal: CRAIG ROBERT WEST, MA 02034, LICENSED PROFESSIONAL SURVEYOR, STATE OF MASSACHUSETTS, NO. 3541

Notes on Survey:
1. THIS PLAN DOES NOT REPRESENT A VOLUNTARY MAPS PROVIDED BY SPECIAL AND FIELD LOCATIONS FOLDED FROM DEEDS AND/OR TAX MAPS THEIR VOLUNTARIES SHOWS HEREOF WHERE
2. SURFACE AND BOYLANDS OWNER INFORMATION AND ESTABLISHED (LAD) SURFACE GRADE OR ZONE 13' N2' FOOT AND MET COORDINATES
1. COORDINATES SYSTEM IS PLM, AND 83 DAVUM

NO	BEARING	DISTANCE	DESCRIPTION	MONUMENT
1	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
2	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
3	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
4	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
5	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
6	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
7	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
8	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
9	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
10	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
11	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP
12	214.55.58, E	208.13	2HG TO BEE' BIT	1/3" @ BEVAR'S CAP

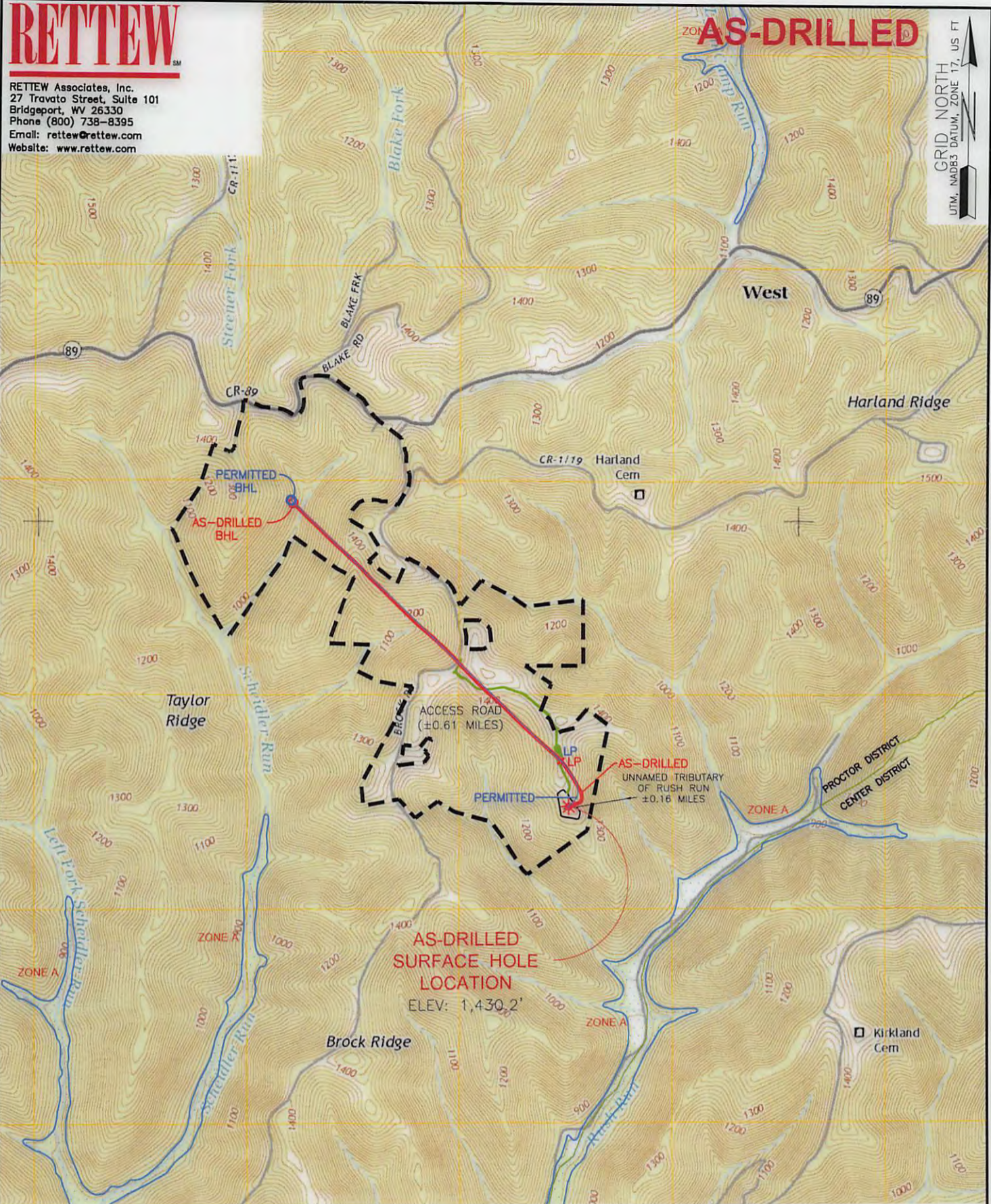
BNG Latitude: 80°45'30"
BNG Longitude: 80°40'00"
148'28"
4'312"

RETTEW

RETTEW Associates, Inc.
 27 Travata Street, Suite 101
 Bridgeport, WV 26330
 Phone (800) 738-8395
 Email: rettew@rettew.com
 Website: www.rettew.com

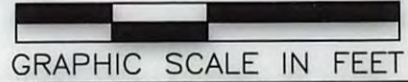
AS-DRILLED

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

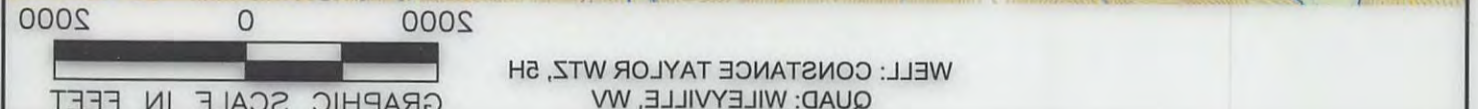
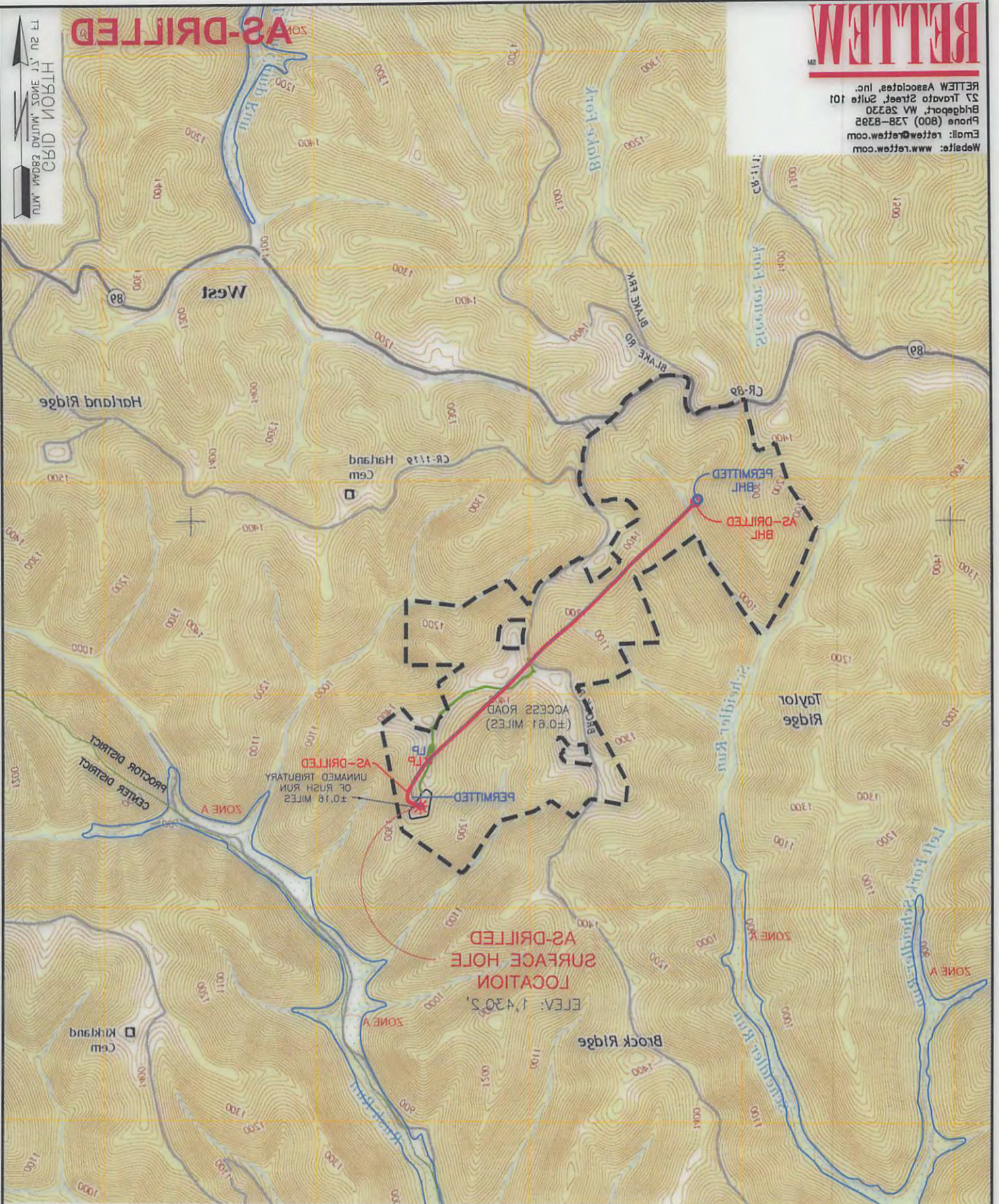


2000 0 2000

WELL: CONSTANCE TAYLOR WTZ, 5H
 QUAD: WILEYVILLE, WV



NAME AND DISTANCE TO THE NEAREST STREAM: UN NAMED TRIBUTARY TO RUSH RUN IS LOCATED ±0.16 MILES EAST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: 	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LAGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S CONSTANCE TAYLOR WTZ		WELL #: 5H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF WETZEL COUNTY, WEST VIRGINIA; MAP NUMBER 54103C0075C; EFFECTIVE DATE: SEPTEMBER 25, 2009. -OR- NO FLOOD ZONES.		LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.654650° LONGITUDE: -80.679254°	
LEGEND: [Symbol] PROPOSED SURFACE HOLE / BOTTOM HOLE [Symbol] EXISTING / PRODUCING WELLHEAD [Symbol] ABANDONED WELL [Symbol] PLUGGED & ABANDONED WELL [Symbol] CUT CONDUCTOR		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.667473° LONGITUDE: -80.694348°		10/06/2017	
[Symbol] AS-DRILLED WELLPATH [Symbol] PERMITTED WELLPATH [Symbol] ACCESS ROAD [Symbol] HIGHWAY/INTERSTATE [Symbol] COUNTY ROAD		REVISIONS: [Symbol] ADDED PERMITTED COORDINATES 08-10-2017		DATE: 02-13-2017	
				DRAWN BY: W. MCCLEAF SCALE: 1" = 2000' DRAWING NO: 087569006 TOPOGRAPHIC MAP	



REVISIONS: Δ ADDED PERMITTED COORDINATES 08-10-2017 DRAWN BY: W. MCCLEAF SCALE: 1" = 200' DRAWING NO: 087589008 TOPOGRAPHIC MAP		LEGEND: ○ PROPOSED SURFACE HOLE \ BOTTOM HOLE * EXISTING \ PRODUCING WELLS ✕ ABANDONED WELL ✕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR — COUNTY ROAD — HIGHWAY/INTERSTATE — ACCESS ROAD — PERMITTED WELLPATH — ADRIILLED WELLPATH	
DATE: 02-13-2017 REVISIONS:		NO FLOOD ZONES. —OR— BY GRAPHIC PLOTTING ONLY FEM FIRM INCORPORATED AREA OF WETZEL COUNTY, WEST VIRGINIA; MAP NUMBER 541030075C; EFFECTIVE DATE: SEPTEMBER 25, 2009.	
BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.667473 LONGITUDE: -80.664748		WELL RESTRICTIONS: WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET SUPPLY: <1000 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: <100 FEET	
SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.654650 LONGITUDE: -80.672524		UN NAMED TRIBUTARY TO RUSH RUN IS LOCATED ±0.18 MILES EAST OF THE CENTER OF THE DRILL PAD. NAME AND DISTANCE TO THE NEAREST STREAM: STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.	
LOCATION: WETZEL COUNTY, WEST VIRGINIA PROCTOR DISTRICT,		COMPANY: Production Company, LLC swm Production Company™ swm Production Company™	
WELL #: 5H OPERATOR'S: CONSTANCE TAYLOR WTS		QUAD: WILEYVILLE, WV WELL: CONSTANCE TAYLOR WTS, 5H	