

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

API 47-103-03185 County WETZEL District PROCTOR
Quad WILEYVILLE Pad Name DANIEL DURIG WTZ PAD Field/Pool Name VICTORY
Farm name DANIEL DURIG (REMAINDERMAN), ARTHUR & SHIRLEY ANN DURIG (LE) Well Number DANIEL DURIG WTZ 101H
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 4,396,396.342 Easting 530,924.763
Landing Point of Curve Northing 4,396,461.740 Easting 530,898.574
Bottom Hole Northing 4,397,574.655 Easting 529,693.319

Elevation (ft) 1401.5' 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 07/21/2017 Date drilling commenced 11/15/2017 Date drilling ceased 12/21/2017
Date completion activities began 05/07/2018 Date completion activities ceased 08/23/2018 RECEIVED
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A Office of Oil and Gas
NOV 20 2018

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug WV Department of Environmental Protection

Freshwater depth(s) ft 427' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,664' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,167' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: DMH
2-21-18

API 47- 103 - 03185

Farm name DANIEL DURIG (REMAINDERMAN), ARTHUR & SHIRLEY ANN DURIG (LE)

Well number DANIEL DURIG WTZ 101H

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	529'	NEW	J-55/54.50#		Y, 19 bbls
Coal	See Intermediate						
Intermediate 1	12.25	9.625	2,714'	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	13,030'	NEW	HCP-110/20#		Y
Tubing		2.375	7,600'	NEW	P-110/4.7#		N
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	485	15.60	1.19	577.15	SURFACE	8
Coal	See Intermediate						
Intermediate 1	CLASS A	1,053	15.60	1.18	1,242.54	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,174	15.60	1.18	2,565.32	SURFACE	24
Tubing							

Drillers TD (ft) 13,030' Loggers TD (ft) 13,030'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,630'

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 _____

**DANIEL DURIG Wtz 101H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	4/6/2018	12,922	12,855	33
2	5/8/2018	12,822	12,750	33
3	5/8/2018	12,717	12,645	33
4	5/20/2018	12,612	12,540	33
5	5/21/2018	12,507	12,435	33
6	5/21/2018	12,402	12,330	33
7	5/22/2018	12,297	12,225	33
8	5/22/2018	12,192	12,120	33
9	5/23/2018	12,087	12,015	33
10	5/24/2018	11,982	11,910	33
11	5/24/2018	11,877	11,805	33
12	5/25/2018	11,772	11,700	33
13	5/26/2018	11,667	11,595	33
14	5/27/2018	11,562	11,490	33
15	5/28/2018	11,457	11,385	33
16	5/28/2018	11,352	11,280	33
17	5/29/2018	11,247	11,175	33
18	5/29/2018	11,142	11,070	33
19	5/30/2018	11,037	10,965	33
20	5/30/2018	10,932	10,860	33
21	5/31/2018	10,827	10,755	33
22	5/31/2018	10,722	10,650	33
23	6/1/2018	10,617	10,545	33
24	6/1/2018	10,512	10,440	33
25	6/1/2018	10,407	10,335	33
26	6/2/2018	10,302	10,230	33
27	6/2/2018	10,197	10,125	33
28	6/3/2018	10,092	10,020	33
29	6/3/2018	9,987	9,915	33
30	6/4/2018	9,882	9,810	33
31	6/5/2018	9,777	9,705	33
32	6/5/2018	9,672	9,600	33
33	6/6/2018	9,567	9,495	33
34	6/6/2018	9,462	9,390	33
35	6/8/2018	9,357	9,285	33
36	6/8/2018	9,252	9,180	33
37	6/9/2018	9,147	9,075	33
38	6/9/2018	9,042	8,970	33
39	6/10/2018	8,937	8,865	33
40	6/11/2018	8,832	8,760	33
41	6/11/2018	8,727	8,655	33
42	6/13/2018	8,622	8,550	33

DANIEL DURIG WTZ 101H
ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
43	6/14/2018	8,517	8,445	33
44	6/14/2018	8,412	8,340	33
45	6/15/2018	8,307	8,235	33
46	6/16/2018	8,202	8,130	33
47	6/17/2018	8,097	8,025	33
48	6/18/2018	7,992	7,920	33
49	6/18/2018	7,887	7,815	33
50	6/19/2018	7,782	7,710	33
51	6/21/2018	7,677	7,605	33

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DANIEL DURIG WTZ 101H
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	5/7/2018	75	7,731	8,012	4,317	200,780	4,107	0
2	5/8/2018	76	7,882	7,912	4,592	204,040	4,352	0
3	5/10/2018	22	6,590	6,184	7,576	116,577	10,190	0
4	5/20/2018	74	7,705	6,361	4,861	205,520	4,410	0
5	5/21/2018	78	7,883	7,327	4,860	222,490	4,020	0
6	5/22/2018	58	7,292	7,191	5,838	127,744	3,964	0
7	5/22/2018	75	7,881	7,214	4,908	204,200	6,769	0
8	5/23/2018	74	7,760	6,672	4,693	202,000	4,342	0
9	5/24/2018	73	7,502	6,191	4,958	213,595	4,016	0
10	5/24/2018	69	7,819	7,184	4,608	213,766	6,178	0
11	5/25/2018	79	7,768	6,822	4,635	202,700	3,900	0
12	5/26/2018	73	7,703	6,407	4,609	207,940	4,012	0
13	5/27/2018	59	7,023	6,679	5,109	178,767	4,247	0
14	5/27/2018	68	8,037	7,385	5,319	216,906	5,943	0
15	5/28/2018	78	7,381	6,951	4,832	217,760	4,115	0
16	5/29/2018	77	7,960	6,703	5,311	178,334	3,693	0
17	5/29/2018	78	7,716	6,668	4,880	225,806	3,959	0
18	5/30/2018	72	8,039	6,664	4,587	219,580	3,922	0
19	5/30/2018	73	8,013	6,551	4,792	201,340	3,689	0
20	5/31/2018	66	8,034	7,647	4,643	202,920	3,716	0
21	5/31/2018	75	8,056	8,537	4,704	201,300	3,265	0
22	6/1/2018	73	8,081	8,255	4,564	199,860	3,606	0
23	6/1/2018	76	7,576	8,171	4,802	199,240	3,297	0
24	6/1/2018	77	8,149	8,326	4,838	198,040	3,455	0
25	6/2/2018	73	8,116	8,190	4,664	202,660	3,583	0
26	6/2/2018	71	8,051	7,880	4,209	202,920	3,278	0
27	6/3/2018	75	7,982	8,222	4,506	198,700	3,374	0
28	6/3/2018	75	7,889	8,372	4,589	203,900	3,372	0
29	6/4/2018	69	7,821	8,301	4,703	203,340	3,497	0
30	6/4/2018	77	7,927	8,237	5,134	203,220	3,326	0
31	6/5/2018	80	7,712	8,258	4,117	196,420	3,448	0
32	6/6/2018	75	7,841	7,701	4,402	203,380	3,292	0
33	6/6/2018	83	7,726	7,704	4,487	204,280	3,399	0
34	6/7/2018	79	7,827	7,021	4,703	205,840	3,365	0
35	6/8/2018	81	7,553	7,608	4,857	202,120	3,294	0
36	6/8/2018	78	7,842	7,667	4,407	197,980	3,200	0
37	6/9/2018	83	7,820	6,790	4,271	201,320	3,280	0
38	6/10/2018	69	7,863	7,743	5,510	205,200	3,270	0
39	6/10/2018	76	7,691	6,344	4,349	206,460	3,335	0
40	6/11/2018	78	7,504	7,117	4,446	203,500	3,217	0
41	6/12/2018	75	7,766	8,575	4,678	204,160	3,114	0
42	6/13/2018	74	7,483	6,511	4,505	219,400	3,644	0
43	6/14/2018	79	7,772	6,796	4,747	212,720	3,577	0
44	6/15/2018	54	8,463	7,439	5,654	104,311	5,093	0
45	6/16/2018	71	7,614	8,144	5,187	208,300	3,425	0
46	6/17/2018	72	7,733	7,697	5,440	168,280	3,193	0
47	6/17/2018	78	7,016	6,277	4,529	205,020	3,312	0
48	6/18/2018	80	7,097	6,380	5,605	201,420	3,265	0
49	6/19/2018	80	7,481	7,571	4,945	204,960	3,497	0
50	6/21/2018	79	7,343	6,855	4,847	224,469	3,170	0
51	6/21/2018	76	7,630	7,102	4,351	210,960	3,160	0

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Attachment 3

Well Name: Daniel Durig WTZ 101H

47103031850000

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	427.00	427.00	
Top of Salt Water	1664.00	1664.00	NA	NA	
Pittsburgh Coal	1167.00	1167.00	1239.00	1239.00	
Pottsville (ss)	1239.00	1239.00	1259.00	1259.00	
Mauch Chunk (shale)	NA	NA	NA	NA	
Raven Cliff (ss)	1682.00	1682.00	1951.00	1951.00	
Maxton (ss)	1951.00	1951.00	NA	NA	
Greenbriar (ls)	NA	NA	NA	NA	
Big Injun (ss)	2325.00	2325.00	2911.00	2911.00	
Berea (siltstone)	2911.00	2911.00	6584.00	6584.00	
Rhinestreet (shale)	6584.00	6584.00	6984.00	6939.00	
Cashaqua (shale)	6984.00	6939.00	7035.00	6982.00	
Middlesex (shale)	7035.00	6982.00	7153.00	7075.00	
Burket (shale)	7153.00	7075.00	7199.00	7106.00	
Tully (ls)	7199.00	7106.00	7235.00	7128.00	
Mahantango (shale)	7235.00	7128.00	7516.00	7226.00	
Marcellus (shale)	7516.00	7226.00	NA	NA	GAS

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/7/2018
Job End Date:	6/21/2018
State:	West Virginia
County:	Wetzel
API Number:	47-103-03185-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Daniel Durig WTZ 101
Latitude:	39.71687700
Longitude:	-80.63919900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,225
Total Base Water Volume (gal):	8,211,294
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
Sand	SWN Well Services	Proppant					
				Listed Below			
BIOC11219A	Nalco	Biocide					
				Listed Below			

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Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control					
				Listed Below			
FLOJET DR 9000 LPP	SWN Well Services	Friction Reducer					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
FLOJET DRP 1130 X	SWN Well Services	Friction Reducer					
				Listed Below			
SCAL16486A	Nalco	Scale Inhibitor					
				Listed Below			
Base Water	Operator	Base Fluid					
				Listed Below			

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

		Water	7732-18-5	100.00000	85.45468	Density = 8.345
		Crystalline Silica, quartz	14808-60-7	100.00000	12.67880	
		Water	7732-18-5	85.00000	1.50324	
		Hydrochloric Acid	7647-01-0	15.00000	0.25556	
		Petroleum Distillates, Hydrotreated	64742-47-8	45.00000	0.05372	

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			Methanol	67-56-1	60.00000	0.01523	
			Ethylene glycol	107-21-1	10.00000	0.01364	
			Benzyl-(C12-C16 Alky)- Dimethyl-Ammonium	68424-85-1	30.00000	0.00761	
			Acetic Acid	64-19-7	37.50000	0.00360	
			Chloride Glutaraldehyde	111-30-8	10.00000	0.00254	
			Alcohols, C12- C16,Ethoxylated propoxylated	68213-24-1	2.00000	0.00239	
			Fatty alcohols ethoxylated	Proprietary	2.00000	0.00239	
			Methanol	67-56-1	80.00000	0.00221	
			Citric Acid	77-92-9	22.50000	0.00216	
			Amine Triphosphate	Proprietary	30.00000	0.00170	
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00027	
			Fatty acids	61790-12-3	5.02700	0.00014	
			Modified thiourea polymer	68527-49-1	4.74600	0.00013	
			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)

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SOUTHWESTERN ENERGY

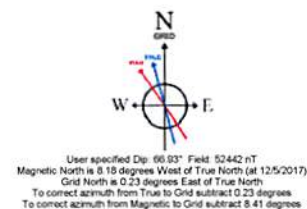
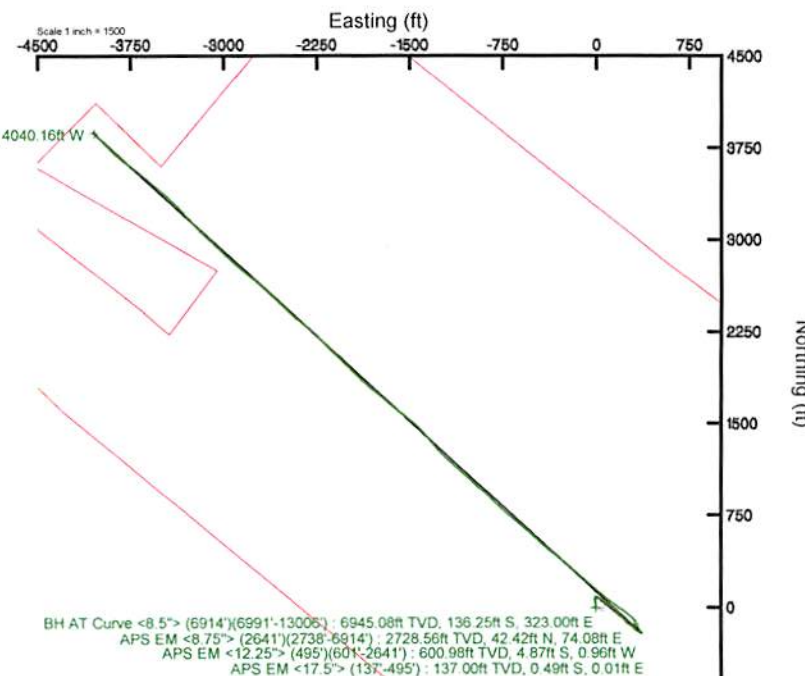
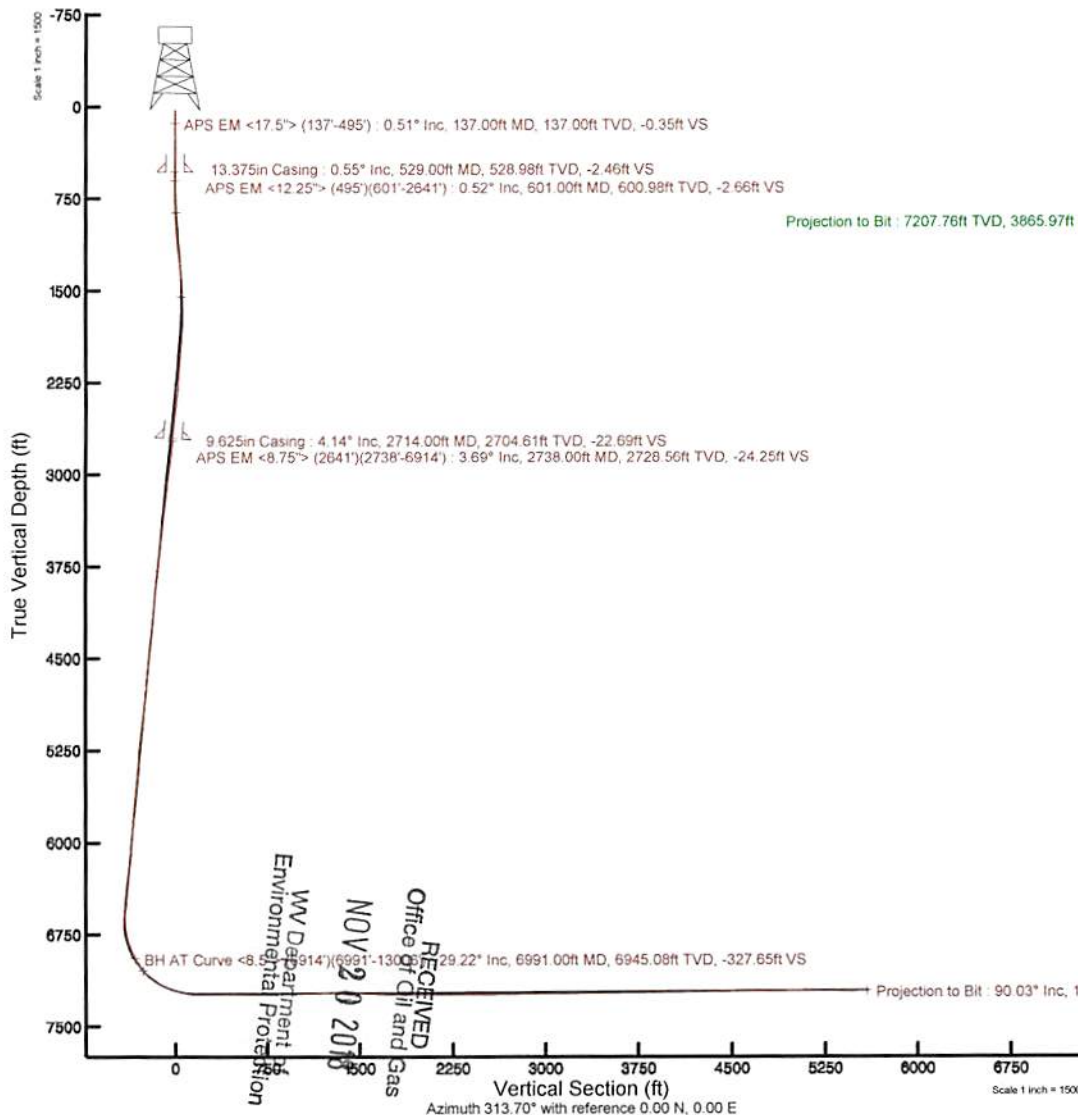
Location: Wetzel County, WV
 Field: Wetzel
 Facility: Daniel Durig Pad

Slot: Slot 101H
 Well: Daniel Durig Wtz 101H
 Wellbore: Daniel Durig Wtz 101H PWB



Plot reference wellbore is Daniel Durig Wtz 101H PWB Para A B	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to Rig on Slot 101H (KB)	* x & y depths were transformed from a different geoid, datum
Measured depths are referenced to Rig on Slot 101H (KB)	North Reference: Grid north
Rig on Slot 101H (KB) to Mean Sea Level: 1427 feet	Scale: True distance
Mean Sea Level to Ground level (at Slot, Slot 101H): -1401 feet	Depth: as in feet
Coordinates are in feet referenced to SNG	Created by: thomsjoc on 2017-12-22
	Database: WA, Pennsylvania

API: 47-103-03815-0000
 Job #: 8881605
 Rig: SDC 46
 Duration: 12/07/2017 - 12/18/2017



REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot 101H
Area	Wetzel County, WV	Well	Daniel Durig WTZ 101H
Field	Wetzel	Wellbore	Daniel Durig WTZ 101H AWB
Facility	Daniel Durig Pad		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Thomsuzc
Scale	0.999612	Report Generated	12/22/2017 at 9:07:12 AM
Convergence at slot	0.24° East	Database/Source file	WA_Pennsylvania/Daniel_Durig_WTZ_101H_AWP_Proj__13030_MD.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	22.86	-26.11	1741875.55	14423843.48	39°43'00.756"N	80°38'21.116"W
Facility Reference Pt			1741901.66	14423820.63	39°43'00.529"N	80°38'20.783"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on Slot 101H (KB) to Facility Vertical Datum	1427.00ft
Horizontal Reference Pt	Slot	Rig on Slot 101H (KB) to Mean Sea Level	1427.00ft
Vertical Reference Pt	Rig on Slot 101H (KB)	Rig on Slot 101H (KB) to Ground Level at Slot (Slot 101H)	26.00ft
MD Reference Pt	Rig on Slot 101H (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	313.70°

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Actual Wellpath Report

Daniel Durig WTZ 101H AWP Proj: 13030'MD
Page 2 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot 101H
Area	Wetzel County, WV	Well	Daniel Durig WTZ 101H
Field	Wetzel	Wellbore	Daniel Durig WTZ 101H AWB
Facility	Daniel Durig Pad		

WELLPATH DATA (148 stations) † = interpolated/extrapolated station															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	178.770	0.00	0.00	0.00	0.00	1741875.55	14423843.48	39°43'00.756"N	80°38'21.116"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	178.770	26.00	0.00	0.00	0.00	1741875.55	14423843.48	39°43'00.756"N	80°38'21.116"W	0.00	0.000	0.00	0.00	0.00
137.00	0.510	178.770	137.00	-0.35	-0.49	0.01	1741875.56	14423842.99	39°43'00.751"N	80°38'21.116"W	0.49	178.770	0.46	0.46	161.05
218.00	0.520	171.830	218.00	-0.89	-1.22	0.07	1741875.62	14423842.26	39°43'00.744"N	80°38'21.115"W	1.22	176.684	0.08	0.01	-8.57
310.00	0.690	199.930	309.99	-1.44	-2.15	-0.06	1741875.49	14423841.33	39°43'00.735"N	80°38'21.117"W	2.15	181.568	0.37	0.18	30.54
402.00	0.530	196.000	401.99	-1.87	-3.08	-0.37	1741875.19	14423840.40	39°43'00.726"N	80°38'21.121"W	3.10	186.755	0.18	-0.17	-4.27
495.00	0.570	192.890	494.98	-2.30	-3.95	-0.59	1741874.97	14423839.54	39°43'00.717"N	80°38'21.124"W	3.99	188.457	0.05	0.04	-3.34
601.00	0.520	212.630	600.98	-2.66	-4.87	-0.96	1741874.59	14423838.62	39°43'00.708"N	80°38'21.129"W	4.96	191.204	0.18	-0.05	18.62
694.00	0.420	333.480	693.97	-2.43	-4.92	-1.34	1741874.21	14423838.57	39°43'00.707"N	80°38'21.133"W	5.10	195.286	0.88	-0.11	129.95
786.00	1.520	4.890	785.96	-1.34	-3.40	-1.39	1741874.16	14423840.09	39°43'00.722"N	80°38'21.134"W	3.67	202.247	1.28	1.20	34.14
879.00	3.070	2.630	878.88	1.07	0.32	-1.17	1741874.38	14423843.80	39°43'00.759"N	80°38'21.131"W	1.21	285.225	1.67	1.67	-2.43
972.00	5.200	358.020	971.64	5.72	7.02	-1.20	1741874.35	14423850.50	39°43'00.825"N	80°38'21.131"W	7.12	350.282	2.32	2.29	-4.96
1064.00	8.300	355.370	1062.99	13.66	17.81	-1.88	1741873.67	14423861.28	39°43'00.932"N	80°38'21.139"W	17.91	353.966	3.39	3.37	-2.88
1157.00	9.050	354.100	1154.92	24.25	31.77	-3.18	1741872.38	14423875.24	39°43'01.070"N	80°38'21.155"W	31.93	354.292	0.83	0.81	-1.37
1250.00	8.380	353.580	1246.85	35.02	45.78	-4.69	1741870.87	14423889.25	39°43'01.209"N	80°38'21.174"W	46.02	354.157	0.73	-0.72	-0.56
1343.00	6.910	355.250	1339.02	44.41	58.09	-5.91	1741869.65	14423901.55	39°43'01.330"N	80°38'21.189"W	58.39	354.194	1.60	-1.58	1.80
1435.00	5.740	359.000	1430.46	51.79	68.21	-6.45	1741869.11	14423911.66	39°43'01.430"N	80°38'21.195"W	68.51	354.602	1.35	-1.27	4.08
1528.00	4.960	5.720	1523.05	57.53	76.86	-6.13	1741869.43	14423920.31	39°43'01.516"N	80°38'21.190"W	77.10	355.443	1.07	-0.84	7.23
1621.00	3.360	25.400	1615.81	60.86	83.32	-4.56	1741871.00	14423926.77	39°43'01.580"N	80°38'21.170"W	83.45	356.870	2.28	-1.72	21.16
1714.00	2.640	57.640	1708.69	61.20	86.93	-1.58	1741873.98	14423930.38	39°43'01.615"N	80°38'21.132"W	86.95	358.960	1.94	-0.77	34.67
1806.00	2.910	96.010	1800.59	58.84	87.82	2.54	1741878.09	14423931.27	39°43'01.624"N	80°38'21.079"W	87.86	1.654	2.00	0.29	41.71
1899.00	4.290	117.980	1893.41	53.63	85.94	7.96	1741883.50	14423929.39	39°43'01.605"N	80°38'21.010"W	86.31	5.289	2.07	1.48	23.62
1992.00	4.780	127.310	1986.12	46.43	81.96	14.11	1741889.66	14423925.41	39°43'01.565"N	80°38'20.931"W	83.17	9.767	0.95	0.53	10.03
2085.00	4.880	133.880	2078.79	38.62	76.87	20.04	1741895.59	14423920.32	39°43'01.515"N	80°38'20.856"W	79.44	14.613	0.60	0.11	7.06
2178.00	5.040	131.390	2171.44	30.58	71.43	25.96	1741901.50	14423914.88	39°43'01.461"N	80°38'20.780"W	76.00	19.972	0.29	0.17	-2.68
2270.00	5.460	122.810	2263.05	22.25	66.38	32.67	1741908.21	14423909.84	39°43'01.411"N	80°38'20.695"W	73.99	26.203	0.97	0.46	-9.33
2363.00	6.470	120.150	2355.55	12.81	61.35	40.92	1741916.45	14423904.81	39°43'01.361"N	80°38'20.589"W	73.75	33.700	1.13	1.09	-2.86
2455.00	6.330	114.990	2446.98	2.97	56.61	50.00	1741925.53	14423900.07	39°43'01.313"N	80°38'20.473"W	75.53	41.452	0.64	-0.15	-5.61
2548.00	6.540	121.930	2539.39	-7.07	51.64	59.14	1741934.67	14423895.10	39°43'01.264"N	80°38'20.357"W	78.51	48.872	0.87	0.23	7.46
2641.00	5.540	123.930	2631.87	-16.68	46.33	67.36	1741942.89	14423889.80	39°43'01.211"N	80°38'20.252"W	81.76	55.477	1.10	-1.08	2.15

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Environmental Protection



Actual Wellpath Report

Daniel Durig WTZ 101H AWP Proj: 13030'MD
Page 3 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot 101H
Area	Wetzel County, WV	Well	Daniel Durig WTZ 101H
Field	Wetzel	Wellbore	Daniel Durig WTZ 101H AWB
Facility	Daniel Durig Pad		

WELLPATH DATA (148 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	
2738.00	3.690	114.540	2728.56	-24.25	42.42	74.08	1741949.61	14423885.89	39°43'01.172"N	80°38'20.166"W	85.37	60.203	2.05	-1.91	-9.68	
2830.00	4.950	133.030	2820.30	-31.01	38.49	79.68	1741955.20	14423881.95	39°43'01.133"N	80°38'20.094"W	88.49	64.219	2.02	1.37	20.10	
2923.00	7.480	133.690	2912.74	-41.08	31.57	86.99	1741962.51	14423875.04	39°43'01.064"N	80°38'20.001"W	92.54	70.056	2.72	2.72	0.71	
3016.00	7.500	130.050	3004.95	-53.19	23.48	96.01	1741971.53	14423866.95	39°43'00.984"N	80°38'19.886"W	98.84	76.259	0.51	0.02	-3.91	
3109.00	6.290	124.260	3097.28	-64.27	16.70	104.87	1741980.38	14423860.18	39°43'00.917"N	80°38'19.773"W	106.19	80.950	1.50	-1.30	-6.23	
3202.00	6.910	133.860	3189.66	-74.89	9.96	113.12	1741988.62	14423853.44	39°43'00.850"N	80°38'19.668"W	113.55	84.968	1.36	0.67	10.32	
3294.00	6.930	131.480	3280.99	-85.97	2.45	121.26	1741996.77	14423845.93	39°43'00.775"N	80°38'19.564"W	121.29	88.843	0.31	0.02	-2.59	
3387.00	5.910	123.230	3373.41	-96.29	-3.89	129.47	1742004.97	14423839.59	39°43'00.712"N	80°38'19.459"W	129.53	91.721	1.48	-1.10	-8.87	
3480.00	6.760	138.880	3465.85	-106.45	-10.64	137.08	1742012.58	14423832.85	39°43'00.645"N	80°38'19.362"W	137.49	94.438	2.06	0.91	16.83	
3573.00	6.610	136.760	3558.22	-117.25	-18.66	144.35	1742019.84	14423824.83	39°43'00.566"N	80°38'19.270"W	145.55	97.367	0.31	-0.16	-2.28	
3666.00	6.210	131.260	3650.64	-127.62	-25.88	151.79	1742027.29	14423817.61	39°43'00.494"N	80°38'19.175"W	153.98	99.675	0.79	-0.43	-5.91	
3758.00	5.760	127.820	3742.14	-137.18	-31.99	159.18	1742034.67	14423811.50	39°43'00.434"N	80°38'19.081"W	162.36	101.363	0.63	-0.49	-3.74	
3851.00	5.960	146.270	3834.66	-146.54	-38.87	165.55	1742041.04	14423804.63	39°43'00.365"N	80°38'19.000"W	170.05	103.213	2.03	0.22	19.84	
3947.00	5.860	147.490	3930.15	-156.16	-47.15	170.95	1742046.44	14423796.35	39°43'00.283"N	80°38'18.931"W	177.33	105.418	0.17	-0.10	1.27	
4039.00	5.580	141.920	4021.69	-165.15	-54.63	176.23	1742051.72	14423788.88	39°43'00.209"N	80°38'18.864"W	184.51	107.222	0.68	-0.30	-6.05	
4132.00	5.480	139.260	4114.26	-174.04	-61.55	181.92	1742057.40	14423781.95	39°43'00.140"N	80°38'18.791"W	192.05	108.693	0.30	-0.11	-2.86	
4225.00	5.070	130.230	4206.87	-182.56	-67.57	187.96	1742063.43	14423775.94	39°43'00.081"N	80°38'18.714"W	199.73	109.774	0.99	-0.44	-9.71	
4317.00	4.720	120.870	4298.53	-190.31	-72.14	194.31	1742069.78	14423771.37	39°43'00.035"N	80°38'18.633"W	207.27	110.368	0.95	-0.38	-10.17	
4410.00	5.530	135.580	4391.16	-198.52	-77.30	200.73	1742076.20	14423766.21	39°42'59.984"N	80°38'18.551"W	215.10	111.062	1.65	0.87	15.82	
4503.00	5.920	134.960	4483.70	-207.80	-83.89	207.26	1742082.73	14423759.62	39°42'59.919"N	80°38'18.468"W	223.59	112.036	0.42	0.42	-0.67	
4595.00	5.900	133.810	4575.21	-217.27	-90.52	214.03	1742089.50	14423753.00	39°42'59.853"N	80°38'18.382"W	232.38	112.925	0.13	-0.02	-1.25	
4688.00	4.770	133.110	4667.80	-225.92	-96.47	220.30	1742095.77	14423747.05	39°42'59.794"N	80°38'18.302"W	240.50	113.648	1.22	-1.22	-0.75	
4780.00	6.310	140.060	4759.37	-234.77	-102.96	226.34	1742101.80	14423740.56	39°42'59.729"N	80°38'18.225"W	248.66	114.460	1.82	1.67	7.55	
4873.00	6.490	141.710	4851.79	-245.05	-111.00	232.88	1742108.34	14423732.52	39°42'59.650"N	80°38'18.142"W	257.98	115.485	0.28	0.19	1.77	
4965.00	6.740	143.230	4943.18	-255.52	-119.41	239.33	1742114.79	14423724.12	39°42'59.566"N	80°38'18.059"W	267.47	116.516	0.33	0.27	1.65	
5059.00	7.380	133.850	5036.47	-267.00	-128.01	246.99	1742122.44	14423715.52	39°42'59.481"N	80°38'17.962"W	278.19	117.397	1.40	0.68	-9.98	
5152.00	6.820	128.820	5128.76	-278.48	-135.61	255.60	1742131.05	14423707.92	39°42'59.406"N	80°38'17.852"W	289.34	117.949	0.90	-0.60	-5.41	
5244.00	4.710	126.620	5220.29	-287.67	-141.29	262.89	1742138.33	14423702.25	39°42'59.349"N	80°38'17.759"W	298.45	118.256	2.31	-2.29	-2.39	
5337.00	4.280	135.760	5313.00	-294.92	-146.05	268.37	1742143.82	14423697.49	39°42'59.302"N	80°38'17.689"W	305.54	118.556	0.90	-0.46	9.83	
5430.00	5.490	126.680	5405.67	-302.81	-151.20	274.36	1742149.81	14423692.34	39°42'59.251"N	80°38'17.613"W	313.26	118.859	1.54	1.30	-9.76	

REFERENCE WELLPATH IDENTIFICATION			
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Area	Wetzel County, WV	Well	Daniel Durig WTZ 101H
Field	Wetzel	Wellbore	Daniel Durig WTZ 101H AWB
Facility	Daniel Durig Pad		

WELLPATH DATA (148 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	
5523.00	5.150	122.640	5498.26	-311.32	-156.10	281.44	1742156.88	14423687.44	39°42'59.202"N	80°38'17.522"W	321.84	119.015	0.54	-0.37	-4.34	
5616.00	5.590	137.150	5590.86	-319.94	-161.68	288.04	1742163.48	14423681.87	39°42'59.147"N	80°38'17.438"W	330.31	119.306	1.53	0.47	15.60	
5708.00	5.000	131.850	5682.47	-328.42	-167.64	294.07	1742169.51	14423675.91	39°42'59.088"N	80°38'17.361"W	338.50	119.686	0.83	-0.64	-5.76	
5801.00	4.290	139.550	5775.16	-335.93	-172.99	299.35	1742174.78	14423670.56	39°42'59.034"N	80°38'17.294"W	345.74	120.023	1.01	-0.76	8.28	
5894.00	4.760	128.470	5867.87	-343.23	-178.04	304.63	1742180.06	14423665.52	39°42'58.984"N	80°38'17.227"W	352.84	120.304	1.06	0.51	-11.91	
5987.00	4.600	126.780	5960.56	-350.78	-182.67	310.63	1742186.06	14423660.88	39°42'58.938"N	80°38'17.150"W	360.36	120.458	0.23	-0.17	-1.82	
6079.00	5.100	129.550	6052.24	-358.52	-187.48	316.74	1742192.17	14423656.07	39°42'58.891"N	80°38'17.072"W	368.07	120.622	0.60	0.54	3.01	
6172.00	6.820	129.200	6144.73	-368.15	-193.60	324.21	1742199.63	14423649.95	39°42'58.830"N	80°38'16.977"W	377.62	120.844	1.85	1.85	-0.38	
6265.00	7.290	125.680	6237.03	-379.49	-200.54	333.28	1742208.70	14423643.02	39°42'58.761"N	80°38'16.861"W	388.96	121.035	0.69	0.51	-3.78	
6358.00	6.790	126.830	6329.32	-390.79	-207.27	342.47	1742217.89	14423636.29	39°42'58.694"N	80°38'16.744"W	400.31	121.183	0.56	-0.54	1.24	
6447.00	5.950	120.510	6417.77	-400.51	-212.77	350.66	1742226.08	14423630.80	39°42'58.639"N	80°38'16.640"W	410.16	121.248	1.23	-0.94	-7.10	
6540.00	4.320	107.060	6510.40	-408.33	-216.24	358.16	1742233.57	14423627.32	39°42'58.605"N	80°38'16.544"W	418.38	121.122	2.17	-1.75	-14.46	
6636.00	2.380	69.090	6606.24	-412.42	-216.59	363.48	1742238.89	14423626.97	39°42'58.601"N	80°38'16.476"W	423.12	120.790	2.97	-2.02	-39.55	
6729.00	7.010	331.850	6698.99	-407.85	-210.89	362.61	1742238.02	14423632.67	39°42'58.657"N	80°38'16.487"W	419.47	120.182	8.26	4.98	-104.56	
6822.00	15.730	326.430	6790.08	-390.13	-195.35	352.94	1742228.35	14423648.20	39°42'58.811"N	80°38'16.610"W	403.40	118.965	9.44	9.38	-5.83	
6914.00	24.490	333.440	6876.40	-359.95	-167.85	337.49	1742212.91	14423675.70	39°42'59.084"N	80°38'16.806"W	376.92	116.444	9.86	9.52	7.62	
6991.00	29.220	337.020	6945.08	-327.65	-136.25	323.00	1742198.43	14423707.28	39°42'59.397"N	80°38'16.990"W	350.56	112.871	6.49	6.14	4.65	
7084.00	37.280	320.500	7022.95	-278.65	-93.46	296.13	1742171.56	14423750.06	39°42'59.821"N	80°38'17.331"W	310.52	107.517	12.97	8.67	-17.76	
7130.00	41.070	312.060	7058.63	-249.68	-72.57	276.02	1742151.47	14423770.94	39°43'00.028"N	80°38'17.588"W	285.40	104.730	14.21	8.24	-18.35	
7176.00	47.190	306.520	7091.65	-217.80	-52.38	251.21	1742126.67	14423791.13	39°43'00.228"N	80°38'17.904"W	256.61	101.777	15.72	13.30	-12.04	
7223.00	53.520	305.700	7121.62	-181.94	-31.07	221.98	1742097.45	14423812.43	39°43'00.440"N	80°38'18.277"W	224.15	97.967	13.53	13.47	-1.74	
7269.00	59.550	305.330	7146.97	-143.98	-8.79	190.76	1742066.24	14423834.70	39°43'00.662"N	80°38'18.675"W	190.96	92.638	13.13	13.11	-0.80	
7315.00	65.380	305.730	7168.23	-103.62	14.91	157.58	1742033.07	14423858.38	39°43'00.897"N	80°38'19.099"W	158.28	84.596	12.70	12.67	0.87	
7362.00	69.270	306.750	7186.35	-60.63	40.54	122.61	1741998.12	14423884.01	39°43'01.152"N	80°38'19.545"W	129.14	71.703	8.52	8.28	2.17	
7408.00	72.950	308.140	7201.24	-17.37	67.00	88.07	1741963.59	14423910.46	39°43'01.415"N	80°38'19.986"W	110.66	52.736	8.50	8.00	3.02	
7454.00	75.690	309.380	7213.67	26.74	94.73	53.54	1741929.07	14423938.18	39°43'01.690"N	80°38'20.426"W	108.81	29.475	6.50	5.96	2.70	
7501.00	79.170	309.990	7223.89	72.50	124.02	18.25	1741893.79	14423967.45	39°43'01.981"N	80°38'20.876"W	125.36	8.369	7.51	7.40	1.30	
7547.00	82.130	310.790	7231.37	117.80	153.43	-16.32	1741859.24	14423996.85	39°43'02.273"N	80°38'21.317"W	154.29	353.928	6.66	6.43	1.74	
7640.00	90.150	311.890	7237.62	210.44	214.67	-85.93	1741789.66	14424058.07	39°43'02.881"N	80°38'22.205"W	231.23	338.185	8.70	8.62	1.18	
7733.00	90.310	311.790	7237.25	209.29	276.71	-155.21	1741720.40	14424120.08	39°43'03.497"N	80°38'23.088"W	317.26	330.711	0.20	0.17	-0.11	

Office of Oil and Gas

NOV 20 2018

WV Department of Environmental Protection



Actual Wellpath Report

Daniel Durig WZ 101H AWP Proj: 13030'MD
Page 5 of 8



REFERENCE WELLPATH IDENTIFICATION			
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7822.00	90.060	311.150	7236.96	392.32	335.64	-221.90	1741653.74	14424178.99	39°43'04.082"N	80°38'23.938"W	402.36	326.531	0.77	-0.28	-0.72
7915.00	90.250	309.880	7236.71	485.17	396.06	-292.60	1741583.07	14424239.39	39°43'04.682"N	80°38'24.840"W	492.42	323.544	1.38	0.20	-1.37
8008.00	90.520	308.790	7236.09	577.90	455.01	-364.53	1741511.17	14424298.31	39°43'05.267"N	80°38'25.757"W	583.02	321.300	1.21	0.29	-1.17
8101.00	90.400	312.380	7235.34	670.74	515.50	-435.14	1741440.58	14424358.78	39°43'05.868"N	80°38'26.658"W	674.60	319.832	3.86	-0.13	3.86
8193.00	91.290	313.400	7233.98	762.72	578.10	-502.54	1741373.21	14424421.36	39°43'06.489"N	80°38'27.517"W	765.99	319.000	1.47	0.97	1.11
8286.00	91.110	310.400	7232.03	855.65	640.19	-571.73	1741304.04	14424483.42	39°43'07.106"N	80°38'28.400"W	858.33	318.233	3.23	-0.19	-3.23
8379.00	91.200	309.810	7230.16	948.44	700.09	-642.85	1741232.95	14424543.30	39°43'07.700"N	80°38'29.307"W	950.46	317.440	0.64	0.10	-0.63
8471.00	91.200	310.310	7228.23	1040.24	759.29	-713.25	1741162.58	14424602.47	39°43'08.288"N	80°38'30.205"W	1041.75	316.791	0.54	0.00	0.54
8564.00	91.260	314.560	7226.24	1133.17	822.01	-781.86	1741094.00	14424665.17	39°43'08.911"N	80°38'31.079"W	1134.46	316.434	4.57	0.06	4.57
8657.00	90.280	314.360	7224.99	1226.15	887.14	-848.23	1741027.65	14424730.28	39°43'09.557"N	80°38'31.925"W	1227.40	316.285	1.08	-1.05	-0.22
8750.00	89.780	312.000	7224.94	1319.14	950.77	-916.04	1740959.87	14424793.89	39°43'10.189"N	80°38'32.790"W	1320.27	316.066	2.59	-0.54	-2.54
8842.00	89.720	312.640	7225.34	1411.11	1012.71	-984.06	1740891.87	14424855.80	39°43'10.803"N	80°38'33.657"W	1412.08	315.822	0.70	-0.07	0.70
8935.00	88.980	312.610	7226.39	1504.09	1075.69	-1052.49	1740823.47	14424918.75	39°43'11.428"N	80°38'34.530"W	1504.94	315.625	0.80	-0.80	-0.03
9027.00	87.940	310.470	7228.87	1595.99	1136.67	-1121.32	1740754.67	14424979.71	39°43'12.034"N	80°38'35.407"W	1596.68	315.390	2.59	-1.13	-2.33
9120.00	87.660	312.010	7232.44	1688.83	1197.93	-1191.20	1740684.82	14425040.95	39°43'12.642"N	80°38'36.299"W	1689.38	315.162	1.68	-0.30	1.66
9212.00	88.400	317.440	7235.60	1780.72	1262.61	-1256.50	1740619.54	14425105.60	39°43'13.284"N	80°38'37.131"W	1781.28	315.139	5.95	0.80	5.90
9305.00	89.970	321.030	7236.92	1873.26	1333.03	-1317.21	1740558.86	14425175.99	39°43'13.982"N	80°38'37.904"W	1874.03	315.342	4.21	1.69	3.86
9398.00	90.060	319.340	7236.90	1965.67	1404.46	-1376.75	1740499.34	14425247.39	39°43'14.690"N	80°38'38.663"W	1966.71	315.571	1.82	0.10	-1.82
9490.00	89.880	314.100	7236.95	2057.51	1471.41	-1439.80	1740436.31	14425314.32	39°43'15.354"N	80°38'39.466"W	2058.66	315.622	5.70	-0.20	-5.70
9583.00	90.220	308.680	7236.87	2150.40	1532.88	-1509.55	1740366.59	14425375.76	39°43'15.965"N	80°38'40.356"W	2151.38	315.439	5.84	0.37	-5.83
9676.00	89.570	307.730	7237.04	2242.97	1590.40	-1582.62	1740293.54	14425433.26	39°43'16.536"N	80°38'41.288"W	2243.67	315.140	1.24	-0.70	-1.02
9769.00	90.430	311.680	7237.04	2335.72	1649.80	-1654.16	1740222.04	14425492.64	39°43'17.126"N	80°38'42.200"W	2336.25	314.924	4.35	0.92	4.25
9862.00	90.890	308.950	7235.97	2428.54	1709.96	-1725.06	1740151.17	14425552.77	39°43'17.723"N	80°38'43.105"W	2428.95	314.748	2.98	0.49	-2.94
9954.00	91.140	308.690	7234.34	2520.19	1767.62	-1796.73	1740079.53	14425610.41	39°43'18.296"N	80°38'44.019"W	2520.46	314.532	0.39	0.27	-0.28
10047.00	90.650	312.660	7232.88	2613.03	1828.22	-1867.24	1740009.04	14425670.98	39°43'18.897"N	80°38'44.918"W	2613.23	314.395	4.30	-0.53	4.27
10140.00	90.740	315.090	7231.76	2706.02	1892.66	-1934.27	1739942.04	14425735.41	39°43'19.537"N	80°38'45.773"W	2706.21	314.377	2.61	0.10	2.61
10232.00	90.920	314.000	7230.42	2798.00	1957.19	-1999.83	1739876.51	14425799.91	39°43'20.177"N	80°38'46.609"W	2798.20	314.383	1.20	0.20	-1.18
10325.00	91.080	315.060	7228.80	2890.97	2022.40	-2066.11	1739810.24	14425865.09	39°43'20.824"N	80°38'47.454"W	2891.18	314.387	1.15	0.17	1.14
10418.00	90.680	314.590	7227.37	2983.95	2087.95	-2132.07	1739744.32	14425930.62	39°43'21.475"N	80°38'48.294"W	2984.17	314.401	0.66	-0.43	-0.51
10511.00	90.180	318.110	7226.67	3076.83	2155.23	-2196.25	1739680.16	14425997.87	39°43'22.142"N	80°38'49.112"W	3077.10	314.460	3.82	-0.54	3.78

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Actual Wellpath Report

Daniel Durig WTZ 101H AWP Proj: 13030*MD
Page 6 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY
Area	Wetzel County, WV
Field	Wetzel
Facility	Daniel Durig Pad
Slot	Slot 101H
	Daniel Durig WTZ 101H
	Daniel Durig WTZ 101H AWB

WELLPATH DATA (148 stations)															
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[ft]	[ft]	[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
10603.00	90.550	314.240	7226.09	3168.72	2221.59	-2259.94	1739616.49	14426064.21	39°43'22.80"N	80°38'49.924"W	3169.04	314.510	4.23	0.40	-4.21
10696.00	90.220	308.940	7225.46	3261.62	2283.30	-2329.47	1739546.99	14426125.89	39°43'23.413"N	80°38'50.811"W	3261.88	314.427	5.71	-0.35	-5.70
10789.00	90.120	308.150	7225.19	3354.25	2341.25	-2402.21	1739474.28	14426183.82	39°43'23.988"N	80°38'51.739"W	3354.41	314.264	0.86	-0.11	-0.85
10881.00	90.430	313.290	7224.74	3446.09	2401.25	-2471.91	1739404.61	14426243.79	39°43'24.584"N	80°38'52.628"W	3446.20	314.169	5.60	0.34	5.59
10974.00	90.710	314.050	7223.82	3539.08	2465.46	-2539.18	1739337.37	14426307.98	39°43'25.221"N	80°38'53.486"W	3539.20	314.156	0.87	0.30	0.82
11067.00	90.650	313.210	7222.71	3632.08	2529.62	-2606.49	1739270.08	14426372.12	39°43'25.858"N	80°38'54.344"W	3632.18	314.143	0.91	-0.06	-0.90
11160.00	90.680	312.780	7221.63	3725.06	2593.04	-2674.50	1739202.09	14426435.51	39°43'26.487"N	80°38'55.211"W	3725.16	314.114	0.46	0.03	-0.46
11253.00	91.170	311.250	7220.13	3818.01	2655.28	-2743.59	1739133.04	14426497.72	39°43'27.105"N	80°38'56.092"W	3818.08	314.063	1.73	0.53	-1.65
11345.00	90.950	308.610	7218.43	3909.79	2714.31	-2814.12	1739062.53	14426556.73	39°43'27.691"N	80°38'56.992"W	3909.83	313.966	2.88	-0.24	-2.87
11438.00	90.710	311.090	7217.08	4002.56	2773.89	-2885.50	1738991.18	14426616.29	39°43'28.283"N	80°38'57.903"W	4002.57	313.870	2.68	-0.26	2.67
11531.00	90.830	315.360	7215.83	4095.52	2837.57	-2953.25	1738923.46	14426679.94	39°43'28.915"N	80°38'58.766"W	4095.54	313.856	4.59	0.13	4.59
11624.00	90.830	313.910	7214.49	4188.50	2902.90	-3019.42	1738857.31	14426745.25	39°43'29.563"N	80°38'59.610"W	4188.52	313.873	1.56	0.00	-1.56
11716.00	90.830	313.180	7213.15	4280.49	2966.27	-3086.09	1738790.66	14426808.60	39°43'30.192"N	80°39'00.460"W	4280.51	313.866	0.79	0.00	-0.79
11809.00	90.710	314.070	7211.90	4373.48	3030.43	-3153.41	1738723.38	14426872.73	39°43'30.828"N	80°39'01.318"W	4373.50	313.861	0.97	-0.13	0.96
11902.00	90.740	316.760	7210.73	4466.62	3096.65	-3218.68	1738658.13	14426938.93	39°43'31.485"N	80°39'02.151"W	4466.45	313.893	2.89	0.03	2.89
11994.00	90.830	319.270	7209.47	4558.15	3165.03	-3280.21	1738596.62	14427007.27	39°43'32.163"N	80°39'02.935"W	4558.20	313.976	2.73	0.10	2.73
12087.00	90.180	317.770	7208.65	4650.81	3234.70	-3341.80	1738535.05	14427076.92	39°43'32.854"N	80°39'03.719"W	4650.90	314.067	1.76	-0.70	-1.61
12180.00	90.220	315.390	7208.32	4743.69	3302.24	-3405.72	1738471.16	14427144.43	39°43'33.524"N	80°39'04.534"W	4743.81	314.116	2.56	0.04	-2.56
12273.00	90.060	310.390	7208.09	4836.65	3365.51	-3473.84	1738403.07	14427207.68	39°43'34.152"N	80°39'05.403"W	4836.76	314.093	5.38	-0.17	-5.38
12365.00	90.090	310.200	7207.97	4928.48	3425.01	-3544.01	1738332.93	14427267.16	39°43'34.743"N	80°39'06.298"W	4928.56	314.022	0.21	0.03	-0.21
12458.00	90.150	311.980	7207.78	5021.38	3486.13	-3614.10	1738262.86	14427328.26	39°43'35.350"N	80°39'07.192"W	5021.44	313.968	1.92	0.06	1.91
12551.00	90.180	308.780	7207.51	5114.22	3546.38	-3684.93	1738192.06	14427388.47	39°43'35.948"N	80°39'08.096"W	5114.25	313.902	3.44	0.03	-3.44
12644.00	90.060	306.010	7207.32	5206.64	3602.85	-3758.81	1738118.21	14427444.93	39°43'36.509"N	80°39'09.038"W	5206.65	313.786	2.98	-0.13	-2.98
12736.00	89.630	309.250	7207.57	5298.11	3659.01	-3831.66	1738045.39	14427501.07	39°43'37.067"N	80°39'09.968"W	5298.11	313.680	3.55	-0.47	3.52
12829.00	89.750	314.470	7208.07	5391.03	3721.05	-3900.90	1737976.17	14427563.08	39°43'37.682"N	80°39'10.851"W	5391.03	313.648	5.61	0.13	5.61
12922.00	90.310	317.180	7208.02	5483.96	3787.75	-3965.70	1737911.40	14427629.75	39°43'38.344"N	80°39'11.677"W	5483.96	313.685	2.98	0.60	2.91
13006.00	90.030	315.920	7207.77	5567.85	3848.73	-4023.47	1737853.65	14427690.71	39°43'38.949"N	80°39'12.413"W	5567.85	313.728	1.54	-0.33	-1.50
13030.00	90.030	315.920	7207.76	5591.84	3865.97	-4040.16	1737836.96	14427707.94	39°43'39.120"N	80°39'12.626"W	5591.84	313.738	0.00	0.00	0.00

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Actual Wellpath Report

Daniel Durig WTZ 101H AWP Proj: 13030'MD
Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 101H
Area	Wetzel County, WV	Well	Daniel Durig WTZ 101H
Field	Wetzel	Wellbore	Daniel Durig WTZ 101H AWB
Facility	Daniel Durig Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Daniel Durig WTZ 101H AWB Ref Wellpath: Daniel Durig WTZ 101H AWP Proj: 13030'MD

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
17.5in Open Hole	126.00	547.00	421.00	126.00	546.98	-0.40	0.01	-4.42	-0.74
13.375in Casing	26.00	529.00	503.00	26.00	528.98	0.00	0.00	-4.26	-0.68
12.25in Open Hole	547.00	2731.00	2184.00	546.98	2721.57	-4.42	-0.74	42.62	73.67
9.625in Casing	26.00	2714.00	2688.00	26.00	2704.61	0.00	0.00	43.15	72.62
8.75in Open Hole	2731.00	6981.00	4250.00	2721.57	6936.33	42.62	73.67	-140.70	324.91
8.5in Open Hole	6981.00	13030.00	6049.00	6936.33	7207.76	-140.70	324.91	3865.97	-4040.16

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Daniel Durig WTZ 101H BHL Rev-1	7203.00	3872.85	-4052.32	1737824.81	14427714.82	39°43'39.188"N	80°39'12.781"W	point
Daniel Durig WTZ 101H LP Rev-1	7228.00	175.93	-53.44	1741822.13	14424019.34	39°43'02.497"N	80°38'21.791"W	point

WELLPATH COMPOSITION - Ref Wellbore: Daniel Durig WTZ 101H AWB Ref Wellpath: Daniel Durig WTZ 101H AWP Proj: 13030'MD

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	495.00	BHI NaviTrak (Axial)	01 APS EM <17.5"> (137'-495')	Daniel Durig WTZ 101H AWB
495.00	2641.00	BHI NaviTrak (Axial)	02 APS EM <12.25">(495')(601'-2641')	Daniel Durig WTZ 101H AWB
2641.00	6914.00	BHI NaviTrak (Axial)	03 APS EM <8.75"> (2641')(2738'- 6914')	Daniel Durig WTZ 101H AWB
6914.00	13006.00	BHI AutoTrak Curve (Short)	04 BH ATC <8.5">(6914')(6991'-13006')	Daniel Durig WTZ 101H AWB
13006.00	13030.00	Blind Drilling (std)	Projection to bit	Daniel Durig WTZ 101H AWB

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot 101H
Area	Wetzel County, WV	Well	Daniel Durig WTZ 101H
Field	Wetzel	Wellbore	Daniel Durig WTZ 101H AWB
Facility	Daniel Durig Pad		

COMMENTS
<p>Wellpath general comments API: 47-103-03815-0000 Job #: 8881605 Rig: SDC 46 Duration: 12/07/2017 - 12/18/2017</p>

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Via Federal Express

November 19, 2018

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: SWN Production Company, LLC
Operator ID: 494512924
Regulatory Filings: WR-34, WR-35 and WR-36

To Whom It May Concern:

Please find enclosed forms WR-34 Discharge Monitoring Report and WR-35 Well Operator's Report of Well Work along with supporting documentation, for the wells listed below.

API	Well Name
47-103-03185	Daniel Durig WTZ 101H
47-103-03186	Daniel Durig WTZ 105H
47-103-03187	Daniel Durig WTZ 201H
47-103-03192	Daniel Durig WTZ 205H
47-103-03205	Daniel Durig WTZ 210H

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Also enclosed is form WR-36, Well Operator's Report of Initial Gas-Oil Ratio for the Daniel Durig WTZ 105H (API 47-103-03186).

If you have any questions or require additional information, please contact me via email at liz_gee@swn.com or telephone at (832) 796-7632.

Sincerely,

Elizabeth Gee
Staff Regulatory Analyst
SW Appalachia Division

/lg
Encl.

JACKSON SURVEYING
INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302

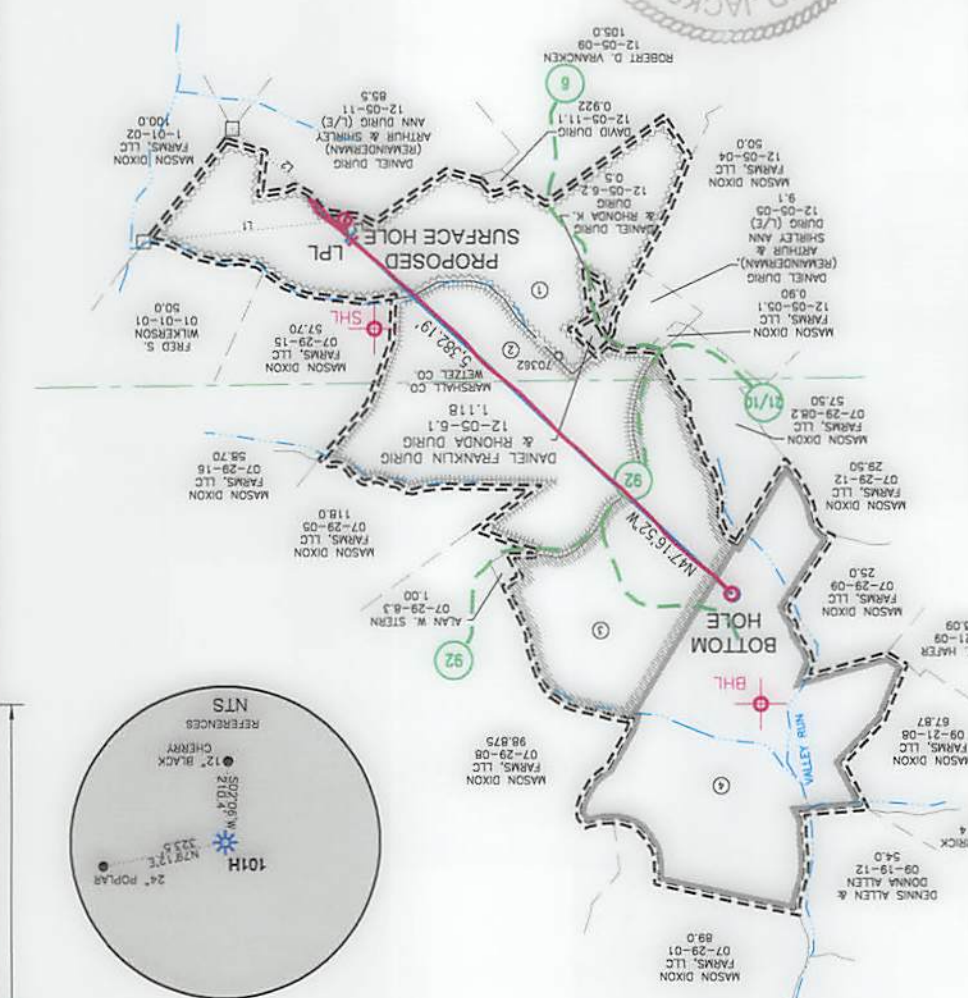
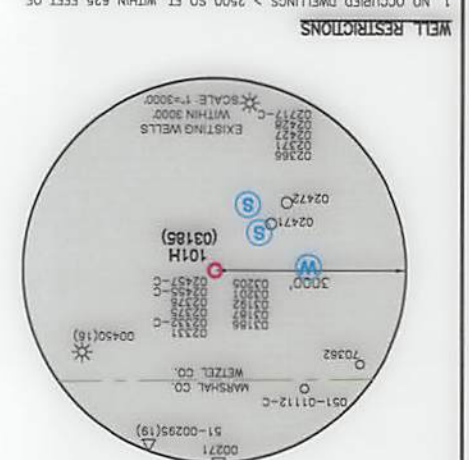
SURFACE HOLE LOCATION (SHL):	EASTING: 4,396,396.285 NORTHING: 5,309,247.729
LANDING POINT (LPL):	EASTING: 5,309,908.447 NORTHING: 4,396,449.888
UTM (NAD83, ZONE 17, METERS):	
BOTTOM HOLE LOCATION (BHL):	EASTING: 5,309,908.447 NORTHING: 4,396,461.740
LANDING POINT (LPL):	EASTING: 5,309,924.763 NORTHING: 4,396,396.342
UTM (NAD83, ZONE 17, METERS):	
SURFACE HOLE LOCATION (SHL):	EASTING: 5,309,924.763 NORTHING: 4,397,576.272
LANDING POINT (LPL):	EASTING: 5,309,908.061 NORTHING: 4,397,576.272
UTM (NAD83, ZONE 17, METERS):	
BOTTOM HOLE LOCATION (BHL):	EASTING: 5,309,898.574 NORTHING: 4,397,574.655
LANDING POINT (LPL):	EASTING: 5,309,893.319 NORTHING: 4,397,574.655

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

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL ACRES
1	DANIEL DURIG (REMANDEMAN), ARTHUR AND SHIRLEY ANN DURIG (LE) (S) / O.C. YOH AND MARY YOH (ARTHUR T. DURIG AND SHIRLEY ANN DURIG (LIFE ESTATE), DANIEL DURIG (REMANDEMAN)) (R)	151.58
2	MASON DIXON FARMS, LLC (S)	129.40
3	ALTON W. STERN (LIFE ESTATE), ALAN W. STERN, DIANE E. STERN, DEBORAH E. PERRIS, BEVERLY J. DAVENPORT (REMANDEMAN) (S)	109.00
4	MASON DIXON FARMS, LLC (S)	162.00

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 85°21'00" E	2040.69'	SHL TO LANDMARK	FENCE CORNER
L2	S 47°51'50" E	1504.31'	SHL TO LANDMARK	FD. MARKED STONE
L3	N 21°49'25" W	231.13'	DISTANCE	SHL TO LP



SWN Production Company, LLC
SWN Production Company, LLC
 GRAPHIC SCALE IN FEET
 0 2000



NOTES ON SURVEY:
 1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN 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.
 3. ALL METERS ARE GROUND NORTH UNLESS OTHERWISE SPECIFIED.
 4. 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 Jackson

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

MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF GRADE GPS SURVEY
 OPERATOR'S WELL #: DANIEL DURIG WTZ 101H

API WELL #: 47
 STATE: WV
 COUNTY: MASON

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

WATERSHED: LAUREL RUN
 DISTRICT: PROCTOR
 COUNTY: WETZEL
 SURFACE OWNER: DANIEL DURIG (REMANDEMAN), ARTHUR & SHIRLEY ANN DURIG (LE)
 OIL & GAS ROYALTY OWNER: O.C. YOH AND MARY YOH (ARTHUR T. DURIG AND SHIRLEY ANN DURIG (LIFE ESTATE), DANIEL DURIG (REMANDEMAN))
 ACREAGE: ±151.58
 SURFACE AREA: ±151.58
 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: 7,238 TVD 13,030 TMD

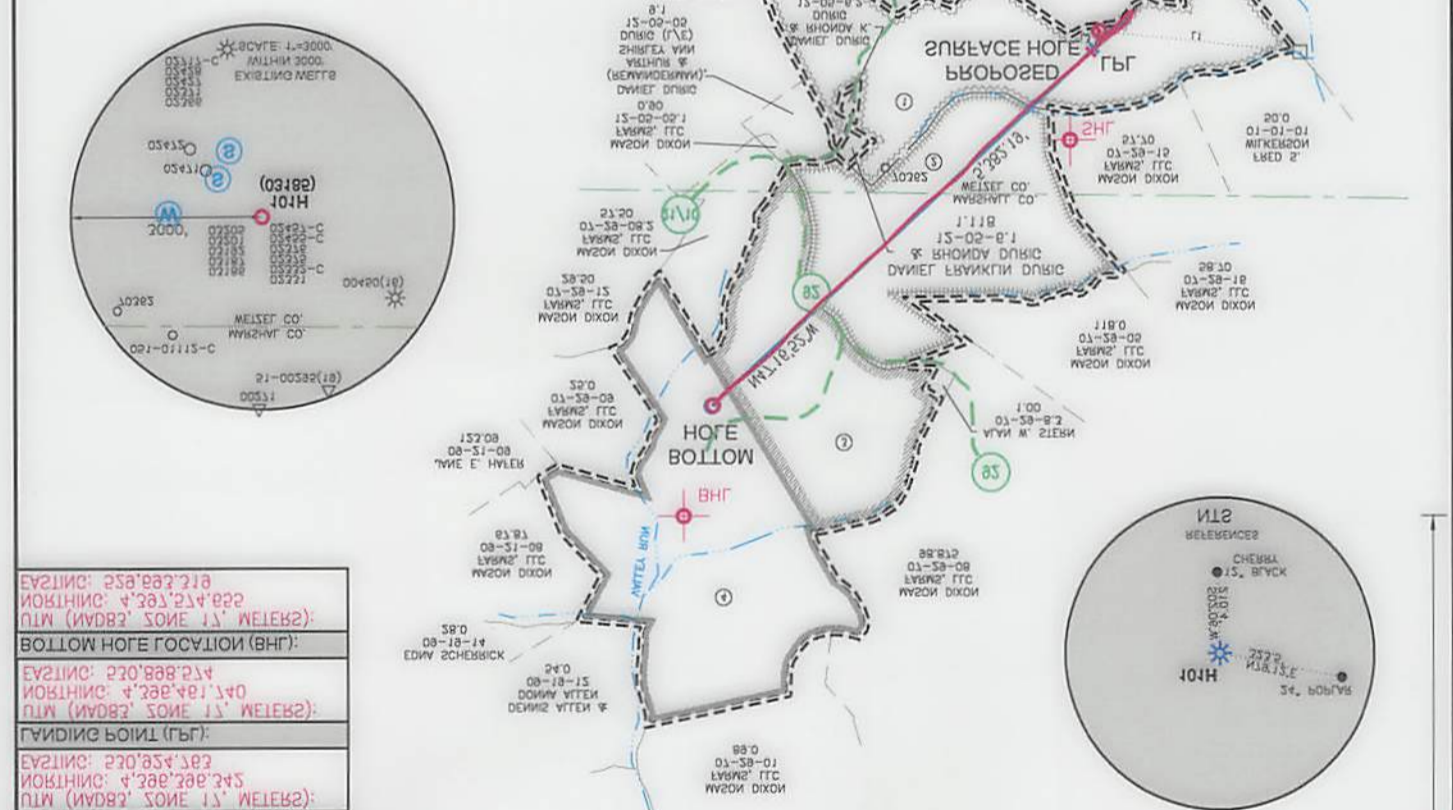
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
 DESIGNATED AGENT: BRITANNY WOODY
 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW
 STATE: WV
 ZIP CODE: 26378

REVISIONS:
 DATE: 10-11-2018
 DRAWN BY: N. MANO
 SCALE: 1" = 2000'
 DRAWING NO.:
 WELL LOCATION PLAT

EXISTING SURFACE EXISTING WATER MEET GUIDING BOULDER LOCATION EXISTING \ PROPOSED METHEAD PROPOSED SURFACE HOPE \ BOTTOM HOPE LEGEND:	PROPOSED BATHYMETRY UNDISTURBED BATHYMETRY FUTURE BATHYMETRY DISTURBED BATHYMETRY SURVEYED BATHYMETRY	MET LOCATION BATHYMETRY NO: SCALE: 1" = 3000' DRAWN BY: M. MAHO DATE: 10-11-2018
CITY: TAYLOR STATE: MI ZIP CODE: 48218 ADDRESS: P.O. BOX 1200 MEET OPERATOR: 2MI PRODUCTION COMPANY, LLC	CITY: TAYLOR STATE: MI ZIP CODE: 48218 ADDRESS: P.O. BOX 1200 DESIGNATED AGENT: BRITANN MOODY	ESTIMATED DEPTH: 1.538 TO 1.030 TMD
TARGET FORMATION: MAWSETT COLLECT <input type="checkbox"/> BGC & AVOIDANCE <input type="checkbox"/> STEADY OIL & WATER <input type="checkbox"/> OTHER CHARGE <input checked="" type="checkbox"/> (SPECIFY) UNDISTURBED	DRIFT <input type="checkbox"/> DRIFT DEBRIS <input type="checkbox"/> BEDROCK <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> BGC OFF OLD FORMATION <input type="checkbox"/> REFORMATE NEW FORMATION <input checked="" type="checkbox"/>	
OIL & GAS BOULDER OMIER: O.C. LONO AND MARY LONO (VARIABLE 1' DNRIC AND ZHIBGEL VMI DNRIC (P.L.E. ESTATE) DANIEL DNRIC (BEMINDEBEMMI) VCSBACE: F.121.28 SURFACE OMIER: DANIEL DNRIC (BEMINDEBEMMI) VSHIBGEL & ZHIBGEL VMI DNRIC (P.L.E.) VCSBACE: F.121.28 DISTRICT: BOSTON COMPANY: METZEL	OPERATING: MICHIGAN STATE ELEVATION: 1401.2'	
MEET TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <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"/> SHALLOW <input checked="" type="checkbox"/>		

CHARGES: M. MAHO 801 2111 2122 OFFICE OF OIL & GAS MADEP UNITED STATES GEOGRAPHIC MAPS (+) DENOTES LOCATION OF MEET ON	ELEVATION: (INAD 88' US FT) SOURCE OF GRADE SURFACE ACCURACY: 1/500 DEGREE OF MINIMUM	STATE COUNTY BERMIL MEET # 14 103 03182 OPERATOR MEET # 1011 DANIEL DNRIC MTS
	PRODUCTION COMPANY, LLC 2MI COMPANY:	GRAPHIC SCALE IN FEET

AND DESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION
 THE INFORMATION DESCRIBED BY THIS AND REGULATIONS ISSUED
 CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS
 THE UNDEVELOPED NEARLY CERTAIN THAT THIS BATHY
 4. THE MEET USE SHD WORK IN INTEREST OTHERWISE DESCRIBED
 5. THE BATHY DOES NOT REPRESENT A BATHYMETRY SURFACE OF THE
 10X SURFACE MEET BATHYMETRY BY SPECIAL AND/OR FIELD SURVEYS
 BATHYMETRY SHOWN HEREON MEET BATHYMETRY FROM DEEDS AND/OR
 7. SURFACE AND BOULDER OMIER INFORMATION AND THEIR
 NOTES ON SURFACE
 1. NO OCCUPIED DWELLINGS > 3200 20 FT' WITHIN 852 FEET OF
 MEET RESTRICTIONS



ELEVATION: 258.882.218 NORTHING: +383.214.882 PLAN (NAD83, ZONE 17, METERS):
BOTTOM HOPE LOCATION (BHG):
ELEVATION: 270.888.214 NORTHING: +388.481.140 PLAN (NAD83, ZONE 17, METERS):
GUIDING POINT (GPG):
ELEVATION: 270.888.214 NORTHING: +388.481.140 PLAN (NAD83, ZONE 17, METERS):
SURFACE HOPE LOCATION (SHG):
ELEVATION: 270.888.214 NORTHING: +388.481.140 PLAN (NAD83, ZONE 17, METERS):
BOTTOM HOPE LOCATION (BHG):
ELEVATION: 270.888.214 NORTHING: +388.481.140 PLAN (NAD83, ZONE 17, METERS):
GUIDING POINT (GPG):
ELEVATION: 270.888.214 NORTHING: +388.481.140 PLAN (NAD83, ZONE 17, METERS):
SURFACE HOPE LOCATION (SHG):

POINT	BATHYMETRY	DISTANCE	SURFACE POINT	DESCRIPTION
G2	И 51.48.52, W	321.12,	1515.52,	ЗНГ TO ГБ
Г2	2 +3.21.20, E	1204.71,	ЗНГ TO ГАИДМАНСК	ED' MARKED ZLOME
Г1	И 82.51.00, E	3040.88,	ЗНГ TO ГАИДМАНСК	FEICE COPIER
POINT	BATHYMETRY	DISTANCE	DESCRIPTION	MOINMENT
1	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	185.00	
2	ДУАЕЛ'ОКЛ (БЕМИНДЕБЕММИ) (2)	03-38-01	108.00	
3	ДУАЕЛ'ОКЛ (БЕМИНДЕБЕММИ) (2)	03-38-01	158.00	
4	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
5	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
6	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
7	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
8	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
9	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
10	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
11	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
12	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
13	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
14	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
15	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
16	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
17	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
18	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
19	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	
20	МАГОИ ДИХОИ ЛАВРАС' ГТC (2)	03-38-01	158.00	