

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

API 47-069-00270 County OHIO District RICHLAND
Quad TILTONVILLE, OH / VALLEY GROVE, WV Pad Name RAYLE COAL-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name RAYLE COAL COMPANY Well Number RAYLE COAL OHI 206H
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 4,445,751.65 Easting 531,775.88
Landing Point of Curve Northing 4,445,365.68 Easting 531,246.08
Bottom Hole Northing 4,440,808.89 Easting 532,317.84

Elevation (ft) 1063.6' 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 05/15/2018 Date drilling commenced 08/28/2018 Date drilling ceased 09/13/2018
Date completion activities began 02/25/2019 Date completion activities ceased 05/03/2019
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 290' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 555' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 242' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed
C. [Signature] 9.9.19

Reviewed by:
GB 9.9.19

WR-35
Rev. 8/23/13

API 47-069 - 00270 Farm name RAYLE COAL COMPANY Well number RAYLE COAL OHI 206H

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	368	NEW	J-55/54.5#	203.2 / 145.1	Y
Coal							
Intermediate 1	12.25	9.625	1734	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	22446	NEW	HCP-110/20#		Y
Tubing		2.375	6795	NEW	L-80/4.7#		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	532	15.60	1.20	638.4	SURFACE	8
Coal							
Intermediate 1	CLASS A	707	15.60	1.20	848.4	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,278	15.60	1.19	5,090.82	SURFACE	24
Tubing							

Drillers TD (ft) 22,446' Loggers TD (ft) 22,446'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,497'

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- 069 - 00270 Farm name RAYLE COAL COMPANY Well number RAYLE COAL OHI 206H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMEN	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/other (units)
		SEE	ATTACHMEN	2				

Please insert additional pages as applicable.

API 47- 069 - 00270 Farm name RAYLE COAL COMPANY Well number RAYLE COAL OHI 206H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
MARCELLUS	5,940'	TVD	22,446' MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1214 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 5,808 mcfpd Oil 1,085 bpd NGL _____ bpd Water 511 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		

Please insert additional pages as applicable.

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 SCHLUMBERGER WELL SERVICES
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company SWN WELL SERVICES
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

Completed by Elizabeth Gee Telephone 832-796-7632
Signature  Title Staff Regulatory Analyst Date 07/12/2019

**RAYLE COAL OHI 206H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	2/21/2019	22,350	22,284	36
2	2/26/2019	22,253	22,146	42
3	2/26/2019	22,107	22,006	42
4	2/27/2019	21,973	21,866	42
5	2/27/2019	21,833	21,726	42
6	2/27/2019	21,692	21,586	42
7	2/28/2019	21,553	21,446	42
8	2/28/2019	21,413	21,306	42
9	2/28/2019	21,273	21,166	42
10	2/28/2019	21,133	21,020	42
11	3/1/2019	20,993	20,886	42
12	3/1/2019	20,851	20,746	42
13	3/1/2019	20,713	20,606	42
14	3/2/2019	20,573	20,466	42
15	3/2/2019	20,433	20,326	42
16	3/2/2019	20,293	20,186	42
17	3/2/2019	20,153	20,046	42
18	3/3/2019	20,013	19,906	42
19	3/3/2019	19,873	19,770	42
20	3/3/2019	19,733	19,626	42
21	3/3/2019	19,593	19,486	42
22	3/3/2019	19,447	19,346	42
23	3/4/2019	19,313	19,206	42
24	3/4/2019	19,173	19,066	42
25	3/4/2019	19,033	18,926	42
26	3/4/2019	18,893	18,786	42
27	3/4/2019	18,753	18,646	42
28	3/5/2019	18,613	18,506	42
29	3/5/2019	18,473	18,366	42
30	3/5/2019	18,333	18,226	42
31	3/6/2019	18,193	18,086	42
32	3/7/2019	18,053	17,946	42
33	3/7/2019	17,913	17,806	42
34	3/7/2019	17,773	17,666	42
35	3/8/2019	17,636	17,526	42
36	3/8/2019	17,493	17,386	42
37	3/8/2019	17,353	17,246	42
38	3/8/2019	17,213	17,106	42
39	3/9/2019	17,073	16,966	42
40	3/9/2019	16,933	16,822	42
41	3/9/2019	16,793	16,686	42

**RAYLE COAL OHI 206H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
42	3/10/2019	16,653	16,548	42
43	3/10/2019	16,513	16,406	42
44	3/11/2019	16,373	16,266	42
45	3/11/2019	16,233	16,126	42
46	3/11/2019	16,093	15,986	42
47	3/12/2019	15,953	15,846	42
48	3/12/2019	15,813	15,706	42
49	3/12/2019	15,673	15,566	42
50	3/13/2019	15,533	15,426	42
51	3/13/2019	15,393	15,286	42
52	3/13/2019	15,249	15,146	42
53	3/14/2019	15,113	15,009	42
54	3/14/2019	14,973	14,866	42
55	3/15/2019	14,832	14,726	42
56	3/15/2019	14,693	14,591	42
57	3/15/2019	14,553	14,447	42
58	3/16/2019	14,413	14,306	42
59	3/16/2019	14,273	14,166	42
60	3/16/2019	14,128	14,030	42
61	3/17/2019	13,993	13,886	42
62	3/17/2019	13,853	13,746	42
63	3/18/2019	13,713	13,610	42
64	3/18/2019	13,573	13,466	42
65	3/18/2019	13,433	13,326	42
66	3/18/2019	13,293	13,186	42
67	3/19/2019	13,151	13,046	42
68	3/19/2019	13,013	12,906	42
69	3/19/2019	12,873	12,766	42
70	3/20/2019	12,733	12,626	42
71	3/20/2019	12,593	12,486	42
72	3/20/2019	12,453	12,346	42
73	3/20/2019	12,313	12,208	42
74	3/21/2019	12,173	12,066	42
75	3/21/2019	12,033	11,926	42
76	3/21/2019	11,893	11,786	42
77	3/21/2019	11,753	11,646	42
78	3/21/2019	11,613	11,506	42
79	3/22/2019	11,473	11,364	42
80	3/22/2019	11,333	11,226	42
81	3/22/2019	11,193	11,086	42
82	3/22/2019	11,053	10,946	42
83	3/22/2019	10,908	10,806	42

**RAYLE COAL OHI 206H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
84	3/22/2019	10,773	10,662	42
85	3/23/2019	10,633	10,529	42
86	3/23/2019	10,493	10,386	42
87	3/23/2019	10,348	10,246	42
88	3/23/2019	10,213	10,106	42
89	3/23/2019	10,073	9,966	42
90	3/24/2019	9,933	9,826	42
91	3/24/2019	9,790	9,686	42
92	3/24/2019	9,648	9,541	42
93	3/24/2019	9,513	9,406	42
94	3/24/2019	9,373	9,266	42
95	3/25/2019	9,233	9,126	42
96	3/25/2019	9,087	8,986	42
97	3/25/2019	8,953	8,846	42
98	3/25/2019	8,813	8,706	42
99	3/25/2019	8,667	8,566	42
100	3/26/2019	8,533	8,426	42
101	3/26/2019	8,393	8,286	42
102	3/26/2019	8,253	8,146	42
103	3/26/2019	8,113	8,006	42
104	3/26/2019	7,976	7,866	42
105	3/27/2019	7,833	7,726	42
106	3/27/2019	7,693	7,586	42
107	3/27/2019	7,553	7,446	42
108	3/27/2019	7,413	7,314	42
109	3/28/2019	7,275	7,166	42
110	3/28/2019	7,133	7,026	42
111	3/28/2019	6,993	6,886	42
112	3/28/2019	6,853	6,746	42
113	3/28/2019	6,713	6,606	42

**RAYLE COAL OHI 206H
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	2/25/2019	33	7,678	6,889	4,343	0	2,238	0
2	2/26/2019	83	8,383	5,986	4,043	281,200	8,280	0
3	2/26/2019	75	8,072	5,512	4,590	279,200	6,914	0
4	2/27/2019	72	8,349	4,308	4,759	278,715	6,709	0
5	2/27/2019	74	7,949	5,260	3,903	277,325	7,322	0
6	2/27/2019	70	8,235	6,240	4,095	274,860	6,681	0
7	2/28/2019	77	8,670	5,359	4,328	271,940	6,145	0
8	2/28/2019	71	8,635	5,719	4,676	277,550	6,377	0
9	2/28/2019	72	8,550	5,100	4,339	269,340	6,132	0
10	2/28/2019	75	8,380	5,056	4,890	269,340	6,117	0
11	3/1/2019	77	8,819	5,778	4,761	272,870	5,682	0
12	3/1/2019	69	8,564	5,053	4,113	283,340	5,629	0
13	3/1/2019	74	8,272	5,260	4,772	269,800	7,122	0
14	3/2/2019	75	8,340	4,217	4,201	279,420	6,358	0
15	3/2/2019	78	8,583	5,238	5,012	270,080	5,812	0
16	3/2/2019	82	8,642	5,019	4,436	282,495	6,048	0
17	3/2/2019	81	8,271	4,846	4,596	281,970	6,464	0
18	3/3/2019	79	8,316	5,460	4,855	278,080	6,187	0
19	3/3/2019	86	8,333	5,156	4,823	272,410	6,313	0
20	3/3/2019	79	8,638	5,318	4,440	279,705	5,894	0
21	3/3/2019	75	8,616	4,689	4,406	279,455	6,497	0
22	3/3/2019	84	8,235	5,224	4,802	273,930	6,081	0
23	3/4/2019	80	8,363	5,312	5,122	273,870	5,968	0
24	3/4/2019	79	8,545	5,007	4,718	270,980	5,865	0
25	3/4/2019	83	8,606	5,078	4,309	269,650	6,194	0
26	3/4/2019	86	8,205	5,362	5,016	271,780	6,078	0
27	3/4/2019	84	8,195	5,080	5,116	264,980	6,011	0
28	3/5/2019	76	7,652	4,807	5,197	272,500	7,755	0
29	3/5/2019	80	8,598	4,781	4,306	282,445	6,014	0
30	3/5/2019	76	8,196	4,801	4,823	268,490	6,232	0
31	3/6/2019	90	8,540	5,618	4,610	272,440	5,962	0
32	3/7/2019	78	7,881	5,283	4,657	278,200	6,391	0
33	3/7/2019	81	8,015	5,436	4,926	281,125	5,674	0
34	3/7/2019	83	7,794	5,886	4,950	274,450	6,514	0
35	3/8/2019	83	8,379	6,159	5,233	282,304	5,696	0
36	3/8/2019	86	8,320	5,324	4,911	275,590	5,357	0
37	3/8/2019	83	7,866	5,686	4,698	288,760	6,343	0
38	3/9/2019	82	7,933	6,122	4,516	288,760	6,310	0
39	3/9/2019	83	7,785	5,605	4,765	283,185	5,618	0
40	3/9/2019	84	7,817	5,469	5,608	272,340	5,287	0
41	3/10/2019	80	7,910	5,784	4,507	289,320	5,774	0
42	3/10/2019	84	8,131	6,005	5,019	270,910	5,780	0
43	3/11/2019	88	8,156	4,805	4,782	286,470	5,895	0
44	3/11/2019	89	8,085	5,900	4,600	277,036	5,354	0
45	3/11/2019	80	7,997	5,830	4,516	285,104	5,541	0
46	3/12/2019	87	8,039	4,972	4,609	276,058	6,442	0
47	3/12/2019	83	7,757	5,048	5,462	269,493	5,144	0
48	3/12/2019	82	7,845	4,850	4,642	285,610	5,609	0
49	3/13/2019	82	7,911	4,339	5,048	276,184	6,723	0
50	3/13/2019	84	7,750	4,898	4,666	272,650	5,218	0
51	3/13/2019	84	7,933	5,438	4,565	284,640	5,851	0
52	3/14/2019	93	8,016	5,116	4,462	284,640	5,789	0

**RAYLE COAL OHI 206H
ATTACHMENT 2
STIM REPORT**

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/other
53	3/14/2019	89	7,805	5,251	4,866	284,905	5,436	0
54	3/14/2019	89	7,959	6,890	4,728	269,340	5,231	0
55	3/15/2019	90	7,769	5,014	4,802	286,290	5,184	0
56	3/15/2019	91	7,699	5,321	4,725	283,438	5,255	0
57	3/15/2019	96	8,127	5,141	5,318	267,580	5,456	0
58	3/16/2019	91	8,005	6,003	4,724	280,480	5,412	0
59	3/16/2019	87	7,703	4,969	4,866	282,140	5,012	0
60	3/16/2019	91	7,640	5,732	4,574	282,900	6,059	0
61	3/17/2019	88	7,738	5,331	4,823	285,020	5,074	0
62	3/17/2019	97	8,163	5,289	4,977	282,776	5,484	0
63	3/18/2019	99	8,062	6,651	4,624	277,728	5,729	0
64	3/18/2019	89	7,722	5,105	4,561	272,928	4,786	0
65	3/18/2019	88	7,626	5,441	4,672	279,552	4,470	0
66	3/18/2019	99	8,065	5,336	4,547	284,418	6,314	0
67	3/19/2019	95	7,762	5,462	4,816	279,500	4,869	0
68	3/19/2019	89	7,618	5,660	4,990	281,985	4,488	0
69	3/19/2019	99	7,842	5,987	4,853	280,398	5,479	0
70	3/20/2019	96	7,875	5,887	4,538	281,585	5,245	0
71	3/20/2019	94	7,900	6,202	4,781	276,779	4,891	0
72	3/20/2019	96	7,792	6,349	4,425	280,090	5,370	0
73	3/20/2019	95	7,896	5,941	4,292	280,820	5,404	0
74	3/21/2019	95	7,943	6,218	4,370	282,085	5,335	0
75	3/21/2019	92	7,983	6,393	4,988	269,260	5,472	0
76	3/21/2019	95	7,890	5,236	5,344	278,780	4,577	0
77	3/21/2019	96	7,876	6,024	4,995	288,530	4,911	0
78	3/21/2019	92	7,909	6,052	4,257	289,170	4,920	0
79	3/22/2019	95	8,040	5,386	4,325	292,750	5,097	0
80	3/22/2019	97	7,640	6,015	5,024	289,790	4,622	0
81	3/22/2019	96	7,890	5,846	5,064	268,730	4,360	0
82	3/22/2019	95	7,682	5,667	4,989	269,770	4,802	0
83	3/22/2019	95	7,929	5,711	4,356	292,970	4,575	0
84	3/23/2019	93	7,813	5,470	4,569	270,770	4,700	0
85	3/23/2019	96	8,056	5,711	4,644	271,280	4,360	0
86	3/23/2019	96	7,590	5,699	4,952	269,950	4,339	0
87	3/23/2019	97	7,952	4,699	4,689	277,450	4,321	0
88	3/23/2019	83	7,779	5,781	4,416	269,670	3,928	0
89	3/23/2019	90	7,455	5,944	4,320	269,460	3,939	0
90	3/24/2019	96	7,920	6,227	4,857	270,460	4,282	0
91	3/24/2019	97	7,363	5,674	4,712	275,340	4,471	0
92	3/24/2019	97	7,389	5,850	4,664	271,730	4,123	0
93	3/24/2019	97	7,728	5,821	4,995	270,720	4,171	0
94	3/24/2019	97	7,154	5,726	4,303	273,870	4,364	0
95	3/25/2019	97	7,862	5,104	4,788	288,990	4,297	0
96	3/25/2019	96	7,408	6,373	5,211	270,760	4,107	0
97	3/25/2019	96	7,366	6,028	4,871	271,880	4,108	0
98	3/25/2019	94	7,648	6,090	4,712	269,590	4,021	0
99	3/26/2019	92	7,938	6,144	4,650	247,880	4,311	0
100	3/26/2019	95	7,737	4,852	4,852	273,250	4,060	0
101	3/26/2019	97	7,183	5,708	4,858	269,890	4,128	0
102	3/26/2019	92	7,510	5,888	4,752	286,660	4,147	0
103	3/26/2019	96	7,117	5,917	4,291	270,950	4,516	0
104	3/27/2019	94	7,586	6,224	4,472	270,230	4,493	0
105	3/27/2019	96	6,664	5,562	5,120	273,820	4,112	0

RAYLE COAL OHI 206H

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
106	3/27/2019	99	7,160	4,855	4,932	269,450	4,134	0
107	3/27/2019	97	7,052	5,122	4,889	268,950	4,217	0
108	3/27/2019	96	7,506	6,185	4,515	272,340	4,118	0
109	3/28/2019	96	7,525	6,100	4,211	291,790	4,610	0
110	3/28/2019	96	7,178	5,826	4,927	271,050	4,095	0
111	3/28/2019	97	7,166	5,965	4,752	270,950	4,180	0
112	3/28/2019	97	6,738	5,593	4,512	247,580	3,953	0
113	3/28/2019	93	6,708	5,701	4,788	271,520	3,953	0



Well Name: Rayle Coal OHI 406H

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	290.00	290.00	
Top of Salt Water	555.00	555.00	NA	NA	
Pittsburgh Coal	242.00	242.00	248.00	248.00	
Big Injun (ss)	1329.00	1329.00	1812.00	1812.00	
Berea (siltstone)	1812.00	1812.00	5943.00	5243.00	
Rhinstreet (shale)	5863.00	5485.00	5886.00	5504.00	
Cashaqua (shale)	5886.00	5504.00	5950.00	5553.00	
Middlesex (shale)	5950.00	5553.00	6041.00	5617.00	
Burket (shale)	6041.00	5617.00	6068.00	5634.00	
Tully (ls)	6068.00	5634.00	6157.00	5687.00	
Mahantango (shale)	6157.00	5687.00	6387.00	5776.00	
Marcellus (shale)	6387.00	5776.00	NA	NA	GAS

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/25/2019
Job End Date:	3/28/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-00270-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Rayle Coal OHI 206
Latitude:	40.16152574
Longitude:	-80.62686150
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,871
Total Base Water Volume (gal):	25,096,506
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
SCAL16486A	Nalco	Scale Inhibitor					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			

BIOC11219A	Nalco	Biocide								
					Listed Below					
Ecopol-FEAC	SWN Well Services	Iron Control								
					Listed Below					
SWN FRW-13LA	SWN Well Services	Friction Reducer								
					Listed Below					
Base Water	Operator	Base Fluid								
					Listed Below					
Sand	SWN Well Services	Proppant								
					Listed Below					
Econo-CI200	SWN Well Services	Corrosion Inhibitor								
					Listed Below					
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.										
		Water			7732-18-5	100.00000	84.67898	Density = 8.345		
		Crystalline Silica, quartz			14808-60-7	100.00000	12.52765			
		Water			7732-18-5	85.00000	1.38368			
		Petroleum Distillates, Hydrotreated			64742-47-8	45.00000	0.98658			
		Ethylene glycol			107-21-1	10.00000	0.22116			
		Hydrochloric Acid			7647-01-0	15.00000	0.08489			
		Fatty alcohols ethoxylated			Proprietary	2.00000	0.04385			

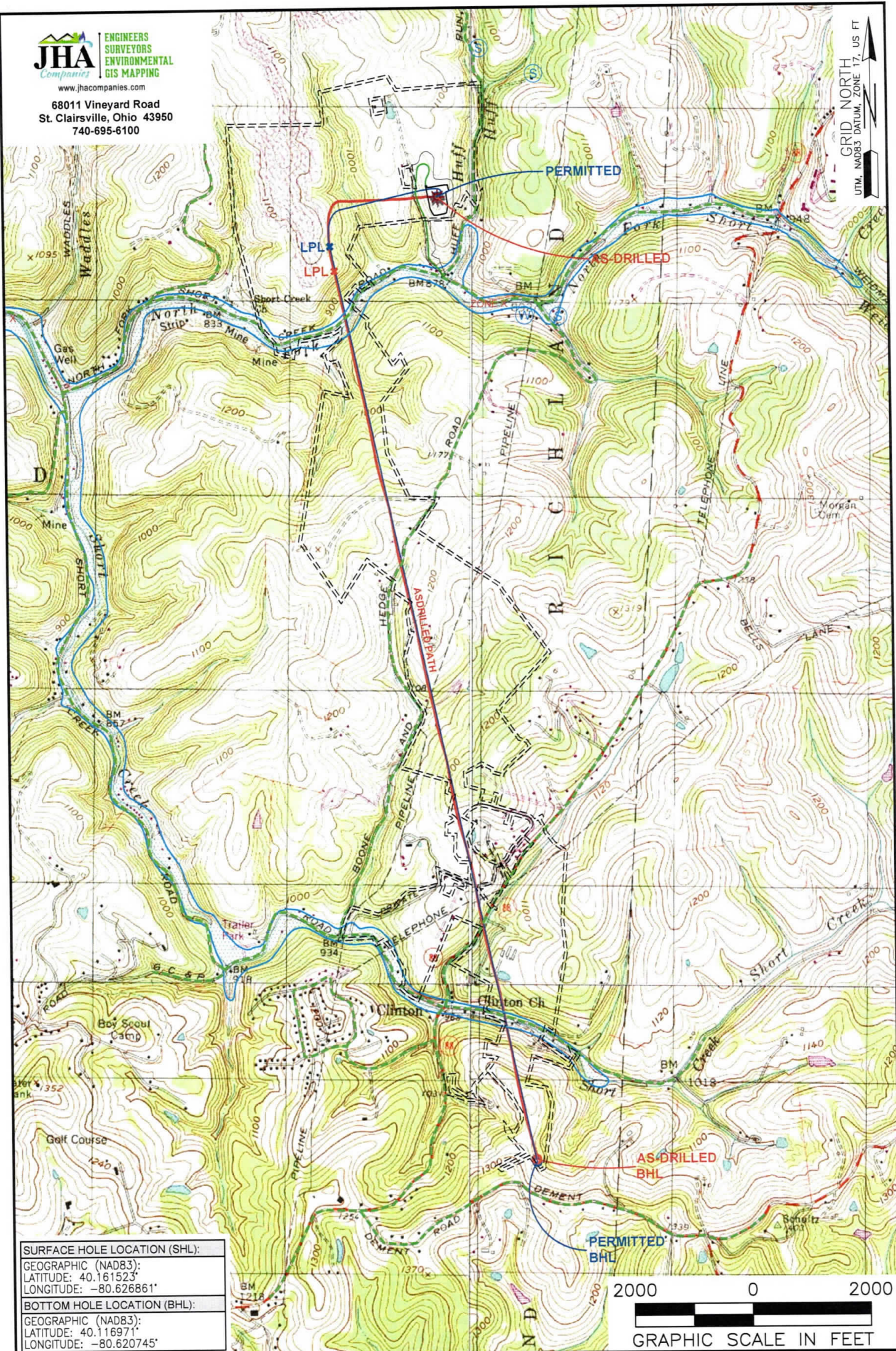
				Alcohols, C12-C16, Ethoxylated propoxylated	68213-24-1	2.00000	0.04385
				Methanol	67-56-1	60.00000	0.01486
				Benzyl-(C12-C16 Alky)-Dimethyl-Ammonium	68424-85-1	30.00000	0.00743
				Chloride Glutaraldehyde	111-30-8	10.00000	0.00248
				Amine Triphosphate	Proprietary	30.00000	0.00192
				Acetic Acid	64-19-7	37.50000	0.00113
				Methanol	67-56-1	80.00000	0.00070
				Citric Acid	77-92-9	22.50000	0.00068
				Oxyalkylated fatty acid	68951-67-7	9.67400	0.00008
				Fatty acids	61790-12-3	5.02700	0.00004
				Modified thiourea polymer	68527-49-1	4.74600	0.00004
				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

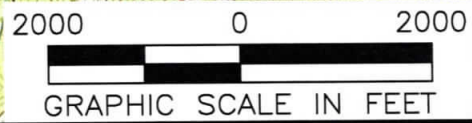
** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** 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)



SURFACE HOLE LOCATION (SHL):
 GEOGRAPHIC (NAD83):
 LATITUDE: 40.161523°
 LONGITUDE: -80.626861°
BOTTOM HOLE LOCATION (BHL):
 GEOGRAPHIC (NAD83):
 LATITUDE: 40.116971°
 LONGITUDE: -80.620745°



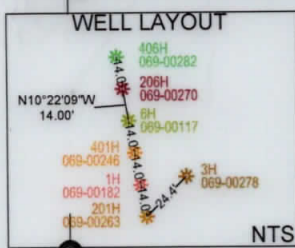
NOTES ON SURVEY
 1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

	EXISTING BOTTOM HOLE		ACCESS ROAD
	EXISTING / PRODUCING WELLHEAD		PUBLIC ROAD
	EXISTING LANDING POINT LOCATION		LEASE BOUNDARY
	PROPOSED SURFACE HOLE / BOTTOM HOLE		PROPOSED PATH
	PROPOSED LANDING POINT LOCATION		ASDRILLED PATH
			FLOOD PLAIN

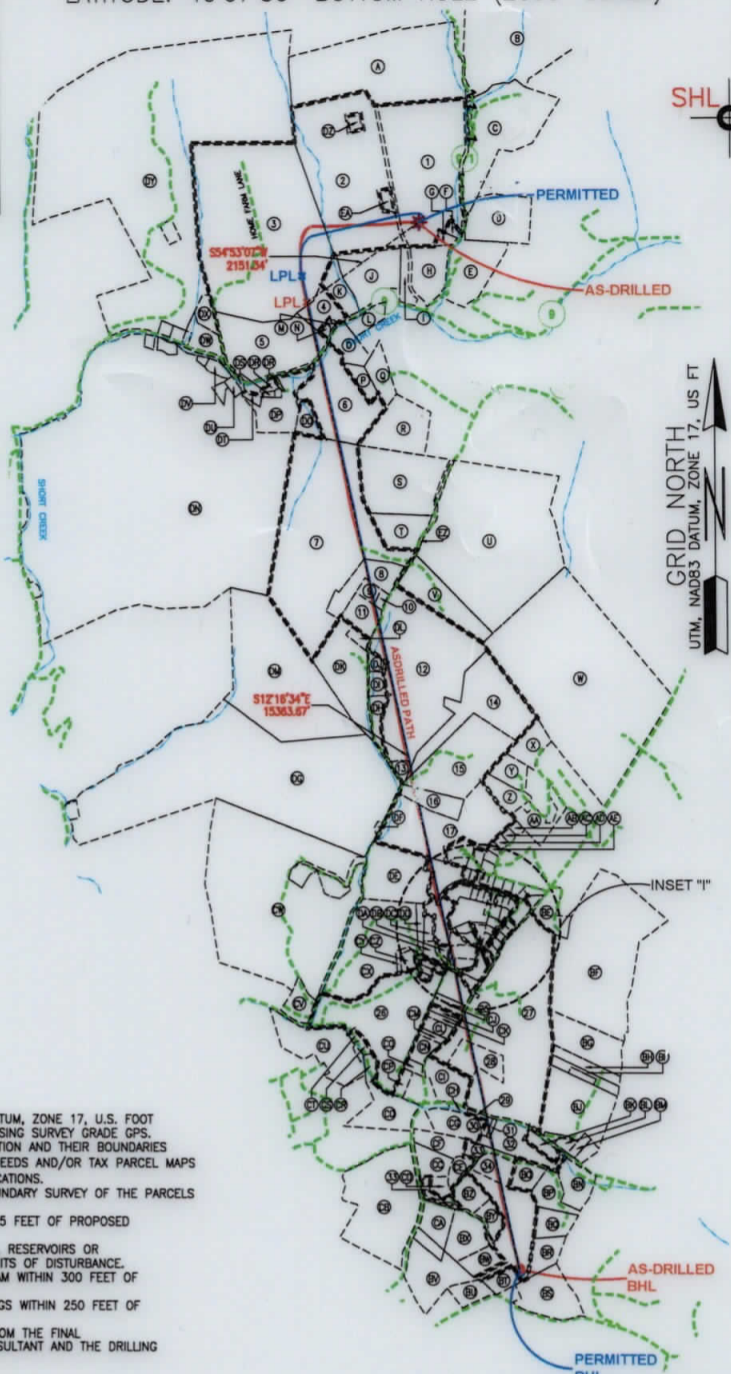
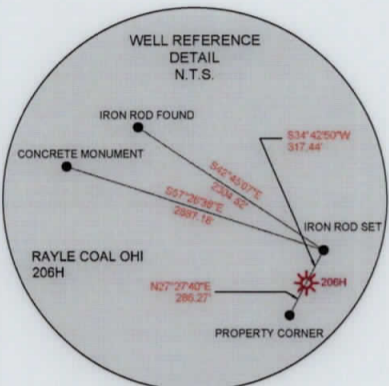
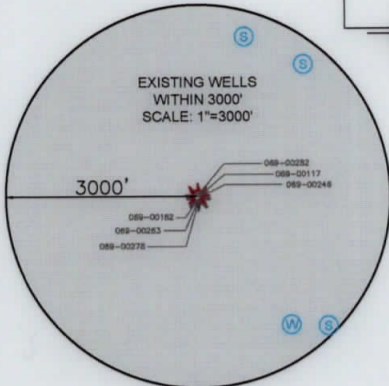
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: RAYLE COAL OHI		WELL # 206H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508		COUNTY: OHIO	CODE: 069	DISTRICT: RICHLAND	API # 47-069-00270
SURFACE OWNER: RAYLE COAL COMPANY		USGS 7 1/2 QUADRANGLE MAP NAME: TILTONVILLE, OH / VALLEY GROVE, WV			

JHA COMPANIES
ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
 www.jhacompanies.com
 68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100



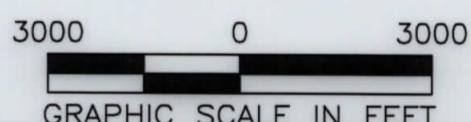
LATITUDE: 40°10'00" SURFACE HOLE (2000' SCALE)
 10524'
 LATITUDE: 40°07'30" BOTTOM HOLE (2000' SCALE)

516'
 2892'
 1892'
 LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)
 LONGITUDE: 80°37'30" SURFACE HOLE (2000' SCALE)



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445715.65 EASTING: 531775.88
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445492.15 EASTING: 531222.66
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4440797.82 EASTING: 532319.75
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445751.65 EASTING: 531775.88
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445365.68 EASTING: 531246.08
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4440808.89 EASTING: 532317.84

- NOTES ON SURVEY**
- COORDINATE 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/OR FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - 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 THE LIMITS OF DISTURBANCE.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - THIS AS-DRILLED PLAT IS PREPARED FROM THE FINAL WELL PLAT PREPARED BY ANOTHER CONSULTANT AND THE DRILLING INFORMATION IS PROVIDED TO JHA.



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. 2041

COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	RAYLE COAL OHI OPERATOR'S WELL #: 206H API WELL #: 47 069 00270 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1063.6'

DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONVILLE, OH/VALLEY GROVE, WV

SURFACE OWNER: RAYLE COAL COMPANY ACREAGE: ±61.53

OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY ACREAGE: ±61.53

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: 5,940' TVD 22,446' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND: ○ EXISTING BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL* EXISTING LANDING POINT LOCATION ○ PROPOSED SURFACE HOLE / BOTTOM HOLE LPL* PROPOSED LANDING POINT LOCATION ● EXISTING WATER WELL ○ EXISTING SPRING — SURVEYED BOUNDARY = = = LEASE BOUNDARY — AS DRILLED PATH — PROPOSED PATH	REVISIONS: DATE: 07-09-2019 API NO: 47-069-00270 DRAWN BY: D. REED SCALE: 1" = 3000' DRAWING NO: 2018-864 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RAYLE COAL COMPANY (S/R)	04-R6-0017.0004
TRACT	SURFACE OWNER	TAX PARCEL
2	RAYLE COAL COMPANY	04-R6-0017.0000
3	MARC SEAMON	04-R6-0037.0000
4	LUKE A. SISARICK	04-R6-0019.0004
5	MARC SEAMON	04-R6-0037.0001
6	DAVID M. ZIEGLER & DANNY J. ZIEGLER	04-R9-0022.0002
7	JORDAN & GAYLE WEBER	04-R9-0009.0000
8	NICHOLAS P. KLAMUT	04-R9-0012.0000
9	MARK W. & DEBORAH L. KETTLER	04-R9-0005.0001
10	MARK W. & DEBORAH L. KETTLER	04-R9-0007.0000
11	LOGAN E. HOPKINS	04-R9-0005.0002
12	STACY D. EVANS	04-R9-0003.0005
13	KENNEDY BETH ANNE	04-R9-0003.0004
14	RCK 2 GROUP, LLC	04-R9-0027.0000
15	RCK 2 GROUP, LLC	04-R9-0001.0000
16	WILLIAM H. & CAROL L. REUTHER	04-R9-0002.0000
17	BRADFORD & NANNETTA HARTLEY	04-R9-0001.0003
18	DOMINIC J. & SHERRIE D. COTTRELL	04-R12-0019.0034
19	DELORES M. FEDORKA, TRUST OF 1993	04-R12-0019.0035
20	DENNIS E. & ANNA M. LAWTHOR	04-R12-0019.0035
21	CARLEY J. & CHRISTOPHER M. ELSWICK	04-R12-0020.0000
22	CARLEY & CHRISTOPHER ELSWICK	04-R12-0021.0000
23	EDWARD A. & KATHY L. WOODS	04-R12-0021.0001
24	LAWRENCE W., III & JACQUELYN M. WITZBERGER	04-R12-0022.0000
25	MICHAEL L. & KATHY D. BARON	04-R12-0023.0008
26	MICHAEL T. & MICHELLE LYNN RATCLIFFE	04-R12-0023.0015
27	JOHN P. WELTY	04-R12-0035.0000
28	DAVID BOYCE & MARY ELLEN GANO	04-R12-0035.0001
29	BEVERLY J. KALO	04-R12-0032.0000
30	CHRISTOPHER L. HARTO	04-R12-0033.0000
31	ANDREW J. PEKLINSKY	04-R12-0034.0000
32	KATHLEEN E. & KEVIN J. TAYLOR	04-R12-0044.0000
33	JOHN A. TARR, IV	04-R12-0045.0000
34	JESSICA YBANEZ-MORANO	04-R12-0045.0011
35	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	BETHANY PIKE

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	RAYLE COAL COMPANY	04-R6-0017.0003
B	WINDSOR COAL COMPANY	04-R6-0012.0000
C	WAYNE E. SHOOK	04-R6-0015.0000
D	GLADYS GOFF & WINDELL H. GOFF, II	04-R6-0027.0001
E	GLADYS GOFF & WINDELL H. GOFF, II	04-R6-0024.0003
F	STELLA M. BRYAN & KATHLEEN J. BRYAN	04-R6-0017.0001
G	WINDSOR COAL COMPANY	04-R6-0025.0000
H	RICHARD A. WOOD, JR.	04-R6-0024.0006
I	EDITH M. WOOD	04-R6-0022.0000
J	LOUIS J., JR. & GRETCHEN L. ENNIS	04-R6-0019.0002
K	SEAN A. SISARICK	04-R6-0019.0000
L	STEPHEN DUNCIL	04-R6-0020.0000
M	SPENCER & SHERRY CURRY	04-R6-0019.0003
N	PAMELA S. LOUGH	04-R6-0019.0001
O	STEVEN E. & S.D. DUNCIL	04-R9-0022.0001
P	DAVID M. & MARY H. ZIEGLER	04-R9-0022.0022
Q	ALEXANDER S. COTTRELL	04-R9-0022.0003
R	CHARLES R. & PHYLLIS J. KELLAM	04-R9-0022.0010
S	DAVID B. & L.M. MAIN	04-R9-0010.0001
T	DAVID B. & L.M. MAIN	04-R9-0010.0000
U	CLAIRE M. CAVENY	04-R9-0003.0000
V	WESBANCO TRUST & INVESTMENT SERVICES	04-R9-0016.0001
W	LILLIAN W. BROWN, TRUST	03-L4-0001.0001
X	CLARK & SHARON L. PAJAK	04-R9-0028.0000
Y	JUDY K. JOHNSON	04-R9-0029.0000
Z	MARY ANN HART	04-R9-0029.0001
AA	DONALD P. & M.E. HUGHES	04-R9-0032.0000
AB	WILLIAM J. & SUSAN M. GREATHOUSE	04-R12B-0010.0007
AC	JACKLYN M. SEXTON	04-R12B-0010.0013
AD	RONALD J. FICCA & J.L. CHAMBERS	04-R12B-0010.0004
AE	GAVIN O. RICKETTS	04-R12B-0010.0003
AF	EUSEBIO ELVESTROM RODRIGUEZ	04-R12B-0010.0002
AG	BRADFORD & NANNETTA HARTLEY	04-R9-0001.0004
AH	BRADFORD & NANNETTA HARTLEY	04-R9-0001.0002
AI	BRADFORD & NANNETTA HARTLEY	04-R9-0001.0006
AJ	MICHELLE GARRISON	04-R9-0001.0005
AK	ERIC & JENNIFER WODESKY	04-R12-0019.0041
AL	NIKKI ANN & MICHAEL DAVID ANDERSON	04-R12-0019.0043
AM	RALPH I. JAMES & CLARA L. GARCIA	04-R12B-0010.0014
AN	MITCHELL & SANDRA MOORE	04-R12-0019.0029
AO	MITCHELL & SANDRA MOORE	04-R12-0019.0028
AP	BRIAN S. BAKATIS	04-R12-0019.0024
AQ	JEFFREY M. & KRISTEN M. KNIGHT	04-R12-0019.0026
AR	SUSAN K. KUBOVICZ	04-R12-0019.0023
AS	LUKE A. SHORT & JENNIFER L. KUCER-SHORT	04-R12-0019.0020

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AT	LUKE A. SHORT & JENNIFER L. KUCER-SHORT	04-R12-0019.0017
AU	MATTHEW M. WINE	04-R12-0019.0019
AV	GARY ALLEN, JR. & WHITNEY MARIE NOEL NASH	04-R12-0019.0036
AW	JEREMIAH & JENNIFER DANN	04-R12-0019.0011
AX	KEVIN T. & KELLY L. SPARKS	04-R12-0019.0007
AY	JACK R., JR. & S.L. MARVIN	04-R12-0019.0014
AZ	RICHARD J. & KRISTEN L. LUCAS	04-R12-0019.0004
BA	TIERRA HOME OWNERS ASSOCIATION	04-R12-0019.0033
BB	LAWRENCE WITZBERGER, IV	04-R12-0019.0005
BC	NANCY WITZBERGER	04-R12-0023.0002
BD	OHIO COUNTY PUBLIC SERVICE DISTRICT	04-R12-0035.0003
BE	RITA A. CASTLE	04-R12B-0001.0003
BF	MICHAEL JAMES HALL (LIFE ESTATE), CYNTHIA ANN DICKERSON & CHARLOTTE SUZANNE HALL (REMAINDERMAN)	03-L7-0021.0001
BG	MELISSA MEALY & JENNA PETRI	04-R12-0039.0000
BH	RONALD M. & DEBORAH MCKENZIE	04-R12-0039.0001
BI	JEFFREY WAYNE CALDWELL	04-R12-0040.0001
BJ	ELIZABETH M. JELLEN	04-R12-0041.0000
BK	DONALD E. & D.A. LOUGH	04-R12-0043.0000
BL	DNR PROPERTIES, LLC	04-R12-0041.0002
BM	JAMES R. RINEHART, JR.	04-R12-0041.0001
BN	SARA R. & DAVID A. DENT	04-R12-0045.0021
BO	JEFFREY & ANGELA M. TENNANT	04-R12-0045.0007
BP	LLOYD DALE, II & KAREN L. SMITH	04-R12-0045.0010
BQ	TY E. & TEENA Y. MILLER	04-R12-0045.0005
BR	TINA L. PHILLIPS & ELIZABETH A. PADDEN	04-R12-0045.0008
BS	VINCENT G. & KRISTEN A. DECARLO	04-R12-0045.0003
BT	GILBERT ALLAN & LUCILLE ELIZABETH BROWN	04-R12-0045.0004
BU	G. ALLAN & L.E. BROWN	04-R12-0047.0000
BV	ROBERT & PATRICIA WEISS, 2016 IRREVOCABLE TRUST	04-R12-0046.0000
BW	KERRIE WEISENBORN	04-R12-0045.0015
BX	CHRISTOPHER & CHRISTINE TARR	04-R12-0045.0014
BY	JOAN S. NUGENT	04-R12-0045.0006
BZ	JOHN A., IV & SABRINA M. TARR	04-R12-0045.0013
CA	JONATHAN D. LECHNER	04-R12-0045.0012
CB	MULL W. QUAY, II TRUST	04-R12-0012.0000
CC	RYAN RIES & DANIELLE WASSAM	04-R12-0045.0020
CD	JOHN A. TARR, III FAMILY TRUST	04-R12-0045.0009
CE	CARL BAROSSO & MARIE GIACOMAZZA	04-R12-0045.0019
CF	KAREN NOEL & SCOTT R. YOCUM	04-R12-0045.0017
CG	LORI J. HENRY (C/O: HENRY'S SERVICE STATION)	04-R12-0031.0000
CH	ANN E. REAM	04-R12-0030.0000
CJ	MARY M. GORNEY (L/E) & KATHLEEN G. GORNEY TAGG	04-R12-0024.0000
CJ	GLORIA J. CIARROCCHI	04-R12-0023.0004
CK	LARRY E. PAUGH	04-R12-0023.0009
CL	E. JEBBIA, R. RUTTENBERG & J. O'DELL	04-R12-0023.0005
CM	MATTHEW J. & TISHA L. PAREE	04-R12-0023.0006
CN	HARRY A., JR. & EDITH J. RUMIS	04-R12-0023.0000
CO	BRIAN K. & STACEY L. PAGE	04-R12-0023.0007
CP	LORI JEAN HENRY	04-R12-0023.0014
CQ	LORI JEAN HENRY	04-R12-0007.0000
CR	KARYL LEE DONALDSON	04-R12-0016.0000
CS	DAVID P. & KRISTY A. DEFRANCO	04-R12-0023.0003
CT	DAVID PATRICK & KRISTY ANN DEFRANCO	04-R12-0017.0000
CU	SEAN P. & KATIE M. SMITH	04-R12E-0023.0029
CV	RELYKS, LLC	04-R12-0005.0000
CW	JOSEPH ELIAS	04-R12-0001.0000
CX	ROBERT E. JONES LIVING TRUST	04-R12-0018.0000
CY	DANIEL & M. HARRIMAN	04-R12-0018.0002
CZ	DANIEL & M. HARRIMAN	04-R12-0018.0001
DA	STEPHEN E. & DEBORAH E. KEDING	04-R12-0019.0021
DB	BENJAMIN A. MARSH	04-R12-0019.0031
DC	DANIEL D. & WENDY L. RHOME	04-R12-0019.0045
DD	COLUMBIA GAS TRANSMISSION CORPORATION	04-R12-0019.0001
DE	DOMINIC J. & SHERRIE D. COTTRELL	04-R12-0019.0030
DF	GREGORY TAGGART	04-R9-0050.0000
DG	TUNNEL RIDGE, LLC (C/O: PROPERTY TAX)	04-R8-0061.0004
DH	WILLIAM ISAAC KNIGHT & MEREDITH SERTICH	04-R9-0003.0007
DI	LEWIS R., JR. & R.F. HOPKINS	04-R9-0003.0003
DJ	LEWIS R. & ROSEANN F. HOPKINS	04-R9-0004.0000
DK	LEWIS R., JR. & ROSEANN F. HOPKINS	04-R9-0005.0000
DL	LEWIS R., JR. & ROSEANN HOPKINS	04-R9-0008.0000
DM	AMERICAN DISPOSAL SERVICES OF WEST VIRGINIA	04-R8-0061.0000
DN	AMERICAN DISPOSAL SERVICES	04-R8-0015.0000
DO	HELEN M. PERRY (LIFE) & ET AL	04-R9-0014.0001
DP	HELEN M. PERRY (LIFE) & ET AL	04-R9-0014.0002
DQ	JAMES W. & TERESA L. PERRY	04-R9-0014.0005
DR	JAMES W. & TERESA L. PERRY	04-R9-0014.0006
DS	LEWIS A., JR. & SHARON PERRY	04-R9-0014.0007
DT	LUTHER R., JR. & E.L. SMITH	04-R9-0014.0004
DV	LUTHER R., JR. & E.L. SMITH	04-R8-0018.0001
DV	LUTHER R., JR. & E.L. SMITH	04-R8-0018.0003
DW	SHORT CREEK METHODIST EPISCOPAL CHURCH	04-R5-0060.0000
DX	SHORT CREEK CEMETERY ASSOCIATION, TRUSTEES	04-R5-0057.0000
DY	BOARD OF COMMISSIONERS OHIO COUNTY	04-R5-0055.0000
DZ	WESBANCO BANK, INC	04-R6-0017.0005

REVISIONS:	

COMPANY:		
OPERATOR'S	RAYLE COAL OHI	
WELL #:	206H	
DISTRICT:	COUNTY:	STATE:
RICHLAND	OHIO	WV
DATE:	07-09-2019	
API NO:	47-069-00270	
DRAWN BY:	D. REED	
SCALE:	N/A	
DRAWING NO:	2018-864	
WELL LOCATION	PLAT	

RICHLAND		DISTRICT:		OHIO	STATE:	WW
WELL #:		OPERATOR'S		RAYLE COAL OHI		
COMPANY:		Production Company, LLC				
REVISIONS:		 				
WELL LOCATION PLAT		DRAWING NO: 2018-884		SCALE: N/A		
DRAWN BY: D. REED		API NO: 47-089-00270		DATE: 07-09-2019		

TRACT	SURFACE OWNER	TAX PARCEL
EZ	CLAIRE M. CAVENEY	04-R8-0017.0002
EY	THOMAS J. & JUDITH K. WOLF	04-R12-0019.0008
EX	THOMAS J. & JUDITH K. WOLF	04-R12-0019.0042
EW	CHRISTOPHER A. & JACQUELINE YAHN	04-R12-0019.0003
EV	CHRISTOPHER A. & JACQUELINE YAHN	04-R12-0019.0002
EU	JACKSON HOLE PROPERTIES, LLC	04-R12-0019.0019
ET	BRIAN K. & STACEY M. LONG	04-R12-0019.0017
ES	RICHARD C. & D. MULL	04-R12-0019.0010
ER	MICHAEL PAUL & ASHLEE A. BURKEY	04-R12-0019.0009
E0	KATHLEEN A. GEORGE	04-R12-0019.0018
EP	DENA M. EDMON	04-R12-0019.0018
E0	ALEX J. & AMANDA L. GRUBER	04-R12-0019.0040
EN	MICHAEL B. & KERRYNN M. CARNEY	04-R12-0019.0008
EM	MICHAEL B. & KERRYNN M. CARNEY	04-R12-0019.0012
EL	RICO A. COVILLE & TRACY C. HIBBS-COVILLE	04-R12-0019.0027
EK	RICO A. COVILLE & TRACY C. HIBBS-COVILLE	04-R12-0019.0027
EJ	RICO A. COVILLE & TRACY C. HIBBS-COVILLE	04-R12-0019.0028
EI	TRAVIS J. & JENNA N. BROADWATER	04-R12-0019.0029
EH	TRANS BROADWATER	04-R12-0019.0029
EG	CARLEY J. & CHRISTOPHER M. ELZWICK	04-R12-0019.0023
EF	FRANCINE BROADWATER	04-R12-0019.0044
EE	MATTHEW D. & SHARON R. MENDELSON	04-R12-0023.0011
ED	MATTHEW D. & SHARON R. MENDELSON	04-R12-0023.0012
EC	MATTHEW D. & SHARON R. MENDELSON	04-R12-0023.0013
EB	MATTHEW D. & SHARON R. MENDELSON	04-R12-0023.0010
E3	RAYLE COAL COMPANY	04-R8-0017.0002

