

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

API 47-069-00278 County OHIO District RICHLAND
Quad TILTONSVILLE, OH Pad Name RAYLE COAL-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name RAYLE COAL COMPANY Well Number RAYLE COAL OHI 3H
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 4,445,740.30 Easting 531,784.37
Landing Point of Curve Northing 4,445,995.87 Easting 531,582.00
Bottom Hole Northing 4,448,365.74 Easting 530,765.36

Elevation (ft) 1063.9 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
SOBM

Date permit issued 05/03/2018 Date drilling commenced 07/19/2018 Date drilling ceased 08/03/2018
Date completion activities began 02/26/2019 Date completion activities ceased 04/19/2019
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. H. O. 9-9-19

Reviewed by:
SB 9-9-19

API 47-069 - 00278 Farm name RAYLE COAL COMPANY Well number RAYLE COAL OHI 3H

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	360	NEW	J-55/54.5#		Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,739	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	14,572	NEW	HCP-110/20#		Y
Tubing		2.375	6,228	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	424	15.60	1.20	508.8	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	708	15.60	1.20	849.6	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,699	15.60	1.19	3,211.81	SURFACE	24
Tubing							

Drillers TD (ft) 14,572' Loggers TD (ft) 14,572'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,123'

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 _____

**RAYLE COAL OHI 3H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	2/21/2019	14,484	14,388	36
2	2/26/2019	14,357	14,250	42
3	2/26/2019	14,217	14,110	42
4	2/27/2019	14,077	13,970	42
5	2/27/2019	13,937	13,830	42
6	2/27/2019	13,792	13,690	42
7	2/28/2019	13,657	13,551	42
8	2/28/2019	13,517	13,400	72
9	3/1/2019	13,372	13,270	42
10	3/1/2019	13,237	13,130	42
11	3/1/2019	13,097	12,985	61
12	3/1/2019	12,950	12,850	42
13	3/2/2019	12,817	12,710	42
14	3/2/2019	12,677	12,570	42
15	3/2/2019	12,537	12,430	42
16	3/2/2019	12,392	12,290	42
17	3/3/2019	12,260	12,150	42
18	3/3/2019	12,117	12,010	42
19	3/3/2019	11,977	11,870	42
20	3/3/2019	11,837	11,730	42
21	3/3/2019	11,697	11,590	42
22	3/4/2019	11,557	11,450	42
23	3/4/2019	11,417	11,314	42
24	3/4/2019	11,277	11,165	60
25	3/4/2019	11,137	11,030	42
26	3/4/2019	10,997	10,888	42
27	3/5/2019	10,857	10,750	42
28	3/5/2019	10,717	10,610	42
29	3/11/2019	10,586	10,464	47
30	3/12/2019	10,446	10,324	42
31	3/12/2019	10,306	10,184	42
32	3/12/2019	10,166	10,048	42
33	3/13/2019	10,026	9,904	42
34	3/13/2019	9,887	9,764	42
35	3/13/2019	9,746	9,624	42
36	3/14/2019	9,606	9,484	42
37	3/14/2019	9,464	9,344	42
38	3/14/2019	9,326	9,204	42
39	3/15/2019	9,186	9,064	42
40	3/15/2019	9,043	8,926	42
41	3/15/2019	8,906	8,784	42
42	3/16/2019	8,766	8,644	42
43	3/16/2019	8,623	8,506	42
44	3/16/2019	8,486	8,364	42
45	3/17/2019	8,346	8,224	42
46	3/17/2019	8,206	8,087	42
47	3/18/2019	8,066	7,944	42
48	3/18/2019	7,926	7,804	42
49	3/18/2019	7,786	7,664	42
50	3/18/2019	7,646	7,524	42
51	3/19/2019	7,500	7,386	42
52	3/19/2019	7,366	7,244	42
53	3/19/2019	7,226	7,104	42
54	3/20/2019	7,070	6,963	42
55	3/20/2019	6,942	6,824	42
56	3/20/2019	6,800	6,684	42
57	3/21/2019	6,666	6,544	42
58	3/21/2019	6,522	6,404	42
59	3/21/2019	6,382	6,264	42

**RAYLE COAL OHI 3H
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	2/26/2019	76	8,214	8,977	3,903	273,820	6,250	0
2	2/26/2019	85	7,339	6,413	3,879	285,360	6,804	0
3	2/27/2019	82	6,994	5,209	4,106	88,660	4,684	0
4	2/27/2019	88	8,318	5,029	5,933	285,995	6,638	0
5	2/27/2019	86	7,573	5,218	4,212	270,535	5,180	0
6	2/28/2019	82	8,042	5,320	4,054	270,535	5,338	0
7	2/28/2019	83	8,626	5,339	4,697	281,520	5,451	0
8	2/28/2019	81	7,591	5,965	4,028	282,870	9,254	0
9	3/1/2019	93	8,050	4,720	4,765	272,370	5,671	0
10	3/1/2019	80	8,579	4,960	4,983	281,755	4,940	0
11	3/1/2019	55	7,449	4,954	3,847	280,425	11,074	0
12	3/2/2019	92	8,117	5,450	4,454	268,940	5,129	0
13	3/2/2019	92	8,006	5,751	4,607	271,500	5,208	0
14	3/2/2019	84	7,974	5,068	4,361	281,585	5,678	0
15	3/2/2019	93	8,098	5,229	4,365	277,680	5,286	0
16	3/2/2019	95	8,014	5,239	4,752	281,410	5,154	0
17	3/3/2019	100	8,131	5,202	4,837	283,860	5,660	0
18	3/3/2019	94	7,956	5,369	4,358	278,830	5,337	0
19	3/3/2019	90	8,496	5,160	4,865	282,150	5,508	0
20	3/3/2019	94	8,192	4,705	4,938	279,650	5,177	0
21	3/3/2019	99	8,051	5,090	4,903	279,090	4,916	0
22	3/4/2019	97	7,676	4,836	4,621	274,260	4,807	0
23	3/4/2019	81	7,676	5,117	4,368	284,355	6,485	0
24	3/4/2019	59	7,596	6,077	4,532	282,985	9,204	0
25	3/4/2019	98	7,973	5,225	4,917	270,320	5,040	0
26	3/5/2019	101	7,685	4,887	5,189	270,140	4,727	0
27	3/5/2019	100	8,087	4,516	4,677	269,270	4,516	0
28	3/5/2019	70	8,030	4,752	5,334	271,270	10,462	0
29	3/11/2019	90	7,113	5,322	4,482	275,501	5,658	0
30	3/12/2019	96	7,202	5,244	4,391	282,018	5,165	0
31	3/12/2019	87	7,027	4,993	4,471	282,203	4,851	0
32	3/12/2019	96	7,258	5,422	4,663	280,176	4,882	0
33	3/13/2019	97	7,413	4,455	4,680	278,916	5,403	0
34	3/13/2019	94	7,324	4,125	4,465	274,406	4,537	0
35	3/13/2019	93	7,296	4,544	4,518	296,864	4,866	0
36	3/14/2019	93	7,158	5,700	4,809	289,510	4,755	0
37	3/14/2019	95	7,020	4,905	5,068	285,210	4,770	0
38	3/14/2019	99	7,429	4,351	4,987	281,156	4,692	0
39	3/15/2019	94	7,030	5,154	4,657	282,182	4,450	0
40	3/15/2019	97	7,186	4,944	4,825	288,620	4,461	0
41	3/16/2019	100	7,784	5,421	4,547	280,220	5,327	0
42	3/16/2019	95	6,532	5,298	4,910	288,170	4,426	0
43	3/16/2019	92	7,110	5,440	5,040	283,604	4,292	0
44	3/16/2019	99	7,486	5,145	4,639	282,610	5,433	0
45	3/17/2019	93	7,189	5,025	4,589	283,490	4,360	0
46	3/17/2019	99	7,019	5,203	5,515	270,820	4,848	0
47	3/18/2019	95	7,060	4,771	4,633	278,096	4,887	0
48	3/18/2019	88	6,833	5,139	4,484	272,380	4,198	0
49	3/18/2019	97	7,112	5,117	5,152	279,482	4,413	0
50	3/19/2019	99	7,031	5,369	4,619	278,176	4,628	0
51	3/19/2019	91	6,660	5,059	5,010	279,915	4,181	0
52	3/19/2019	98	6,997	4,910	4,868	283,398	4,072	0
53	3/19/2019	95	7,285	5,600	4,651	281,806	4,468	0
54	3/20/2019	95	6,803	4,810	5,070	276,515	4,255	0
55	3/20/2019	96	6,599	5,467	5,121	267,620	4,083	0
56	3/20/2019	97	6,918	5,508	4,413	281,560	4,081	0
57	3/21/2019	97	6,522	5,275	4,472	280,720	3,846	0
58	3/21/2019	98	6,539	5,606	4,902	290,450	4,135	0
59	3/21/2019	94	6,487	5,546	4,689	282,770	4,451	0



Well Name: Rayle Coal OHI 3H

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	5678.00	5582.00	
Middlesex (shale)	5678.00	5582.00	5740.00	5620.00	
Burket (shale)	5740.00	5620.00	5766.00	5637.00	
Tully (ls)	5766.00	5637.00	5852.00	5690.00	
Mahantango (shale)	5852.00	5690.00	6037.00	5779.00	
Marcellus (shale)	6037.00	5779.00	NA	NA	GAS

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/26/2019
Job End Date:	3/21/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-00278-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Rayle Coal OHI 3
Latitude:	40.16142017
Longitude:	-80.62676209
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,799
Total Base Water Volume (gal):	13,033,984
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
BIOC11219A	Nalco	Biocide					
				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			

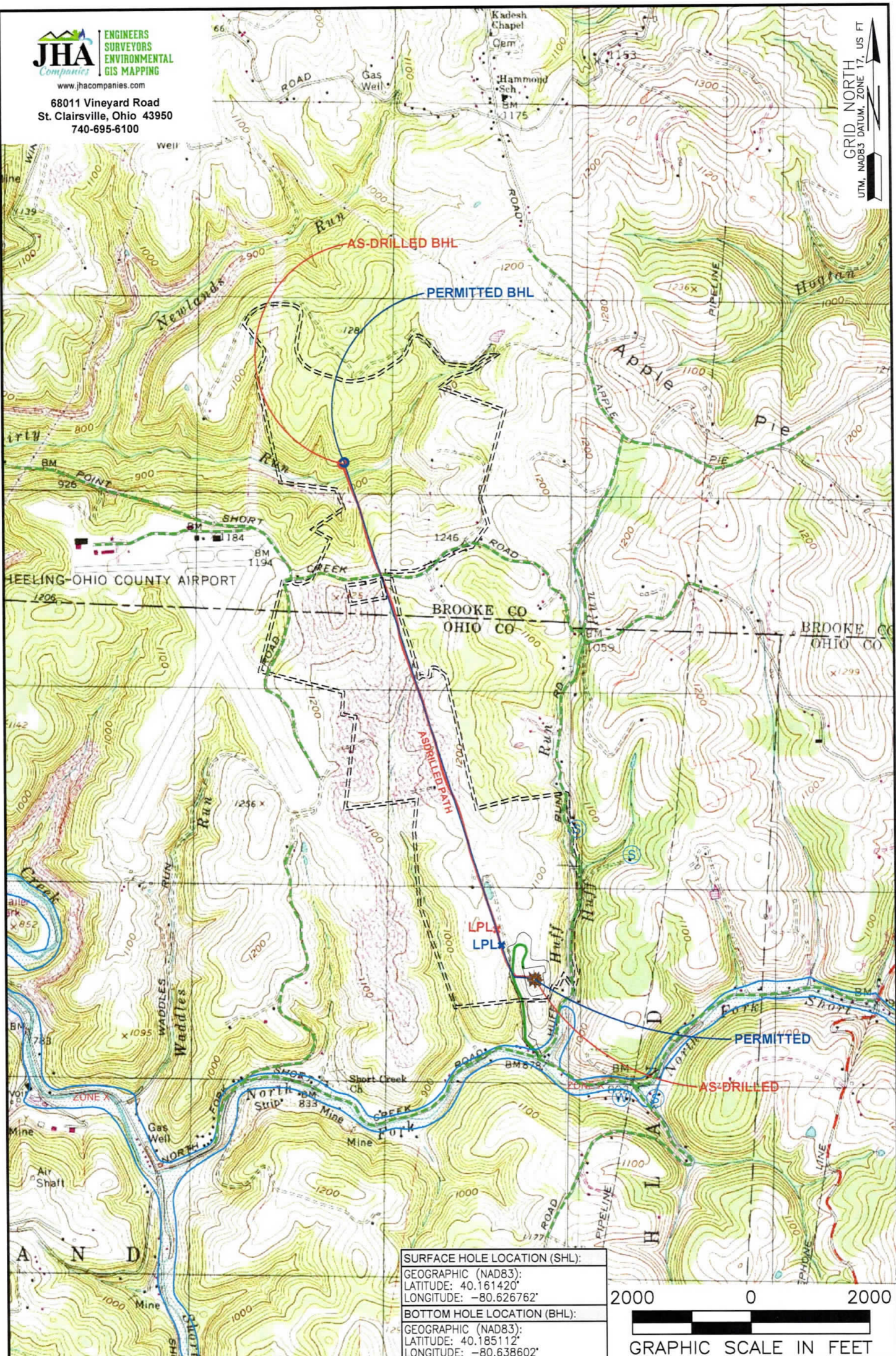
			Fatty alcohols ethoxylated	Proprietary	2.00000	0.04386
			Methanol	67-56-1	60.00000	0.01494
			Benzyl-(C12-C16 Alky)-Dimethyl-Ammonium	68424-85-1	30.00000	0.00747
			Chloride Glutaraldehyde	111-30-8	10.00000	0.00249
			Amine Triphosphate	Proprietary	30.00000	0.00191
			Acetic Acid	64-19-7	37.50000	0.00123
			Citric Acid	77-92-9	22.50000	0.00074
			Methanol	67-56-1	80.00000	0.00072
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00009
			Fatty acids	61790-12-3	5.02700	0.00005
			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%

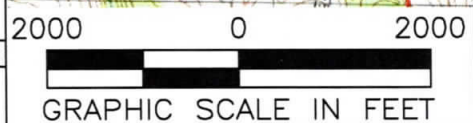
*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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: 40.161420°
 LONGITUDE: -80.626762°

BOTTOM HOLE LOCATION (BHL):
 GEOGRAPHIC (NAD83):
 LATITUDE: 40.185112°
 LONGITUDE: -80.638602°



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.

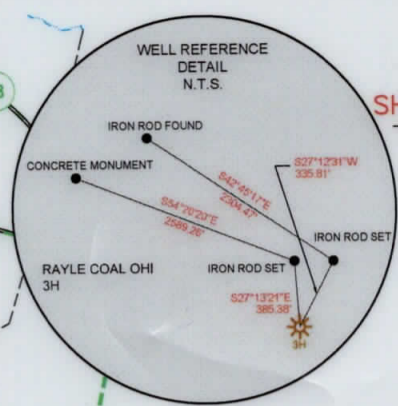
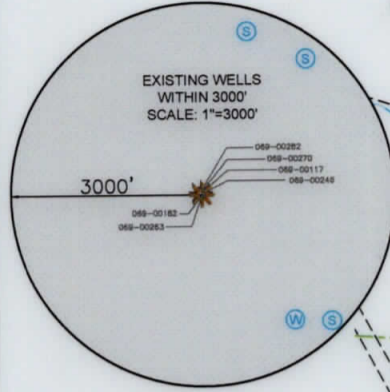
LEGEND:

- EXISTING BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- LPL* EXISTING LANDING POINT LOCATION
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- LPL* PROPOSED LANDING POINT LOCATION
- ACCESS ROAD
- PUBLIC ROAD
- LEASE BOUNDARY
- PROPOSED PATH
- AS-DRILLED PATH
- FLOOD PLAN

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: RAYLE COAL OHI		WELL # 3H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508		COUNTY: OHIO	CODE: 069	DISTRICT: RICHLAND	API # 47-069-00278
SURFACE OWNER: RAYLE COAL COMPANY		USGS 7 1/2 QUADRANGLE MAP NAME: TILTONVILLE, OH			

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
 LATITUDE: 40°12'30" BOTTOM HOLE



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445740.30 EASTING: 531784.37
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445916.24 EASTING: 531607.34
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448373.60 EASTING: 530774.87
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445740.30 EASTING: 531784.37
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445995.87 EASTING: 531582.00
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448365.74 EASTING: 530765.36



- 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 *[Signature]* 7/9/19

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

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

OPERATOR'S WELL #: RAYLE COAL OHI 3H
 API WELL #: 47 069 00278
 STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,063.9'
 DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONVILLE, OH
 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: 5,824' TVD 14,572' TMD


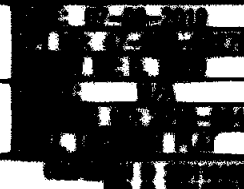
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	⊕ EXISTING WATER WELL	REVISIONS:	DATE: 07-09-2019
⊙ EXISTING BOTTOM HOLE	⊙ EXISTING SPRING		API NO: 47-069-00278
☀ EXISTING / PRODUCING WELLHEAD	— SURVEYED BOUNDARY		DRAWN BY: D. REED
LPL* EXISTING LANDING POINT LOCATION	== LEASE BOUNDARY		SCALE: 1" = 2000'
⊙ PROPOSED SURFACE HOLE / BOTTOM HOLE	— AS DRILLED PATH		DRAWING NO: 2018-864
LPL* PROPOSED LANDING POINT LOCATION	— PROPOSED PATH		WELL LOCATION PLAT

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	RAYLE COAL COMPANY	04-R6-0017.0002
4	WEIRTON NATIONAL BANK	04-R6-0017.0005
5	RAYLE COAL COMPANY	04-R6-0017.0003
6	MARK SEAMON	04-R6-0002.0000
7	BRUCE D. BONAR & WILLIAM D. BONAR	03-B46-0020.0000
8	TRACY GILBERT	03-B46-0022.0001
9	TRACY GILBERT	03-B46-0022.0000
10	DANNY GENE BRITT & MARGARET VIRGINIA	03-B46-0027.0000
11	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0082.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0082.0000
B	JAY GLEN COLLINS	03-B41-0080.0000
C	DALE T. & MARY R. WOOD	03-B41-0084.0000
D	JAMES B. & MELISSA D. GEBHARDT	03-B46-0029.0000
E	GRACE FRIEND	03-B46-0030.0000
F	REBECCA FRIEND	03-B46-0026.0000
G	GARY L. & MARGIE WILLIAMS	03-B46-0025.0000
H	BUSTER T. & BARBARA A. BLAKE	03-B46-0023.0000
I	TRACY GILBERT	03-B46-0023.0001
J	DOUGLAS L. STEWART	03-B46-0021.0000
K	MY THREE SONS HOLDINGS, LP	03-B46-0024.0000
L	GARY & MARTHA HERCULES	04-R6-0004.0000
M	GARY & MARTHA HERCULES	04-R6-0004.0001
N	GARY & MARTHA HERCULES	04-R6-0005.0000
O	GARY & MARTHA HERCULES	04-R6-0006.0000
P	MARTHA HERCULES	04-R6-0007.0000
Q	GARY WAYNE HERCULES	04-R6-0016.0000
R	WINDSOR COAL COMPANY	04-R6-0012.0000
S	WAYNE E. SHOOK	04-R6-0015.0000
T	WINDELL H. & GLADYS GOFF	04-R6-0027.0001
U	WINDELL H. & GLADYS GOFF	04-R6-0024.0003
V	STELLA M. BRYAN & KATHLEEN J. BRYAN	04-R6-0017.0001
W	WINDSOR COAL COMPANY	04-R6-0025.0000
X	RICHARD A. WOOD, JR.	04-R6-0024.0006
Y	EDITH M. WOOD	04-R6-0022.0000
Z	LOUIS J., JR. & GRETCHEN L. ENNIS	04-R6-0019.0002
AA	SEAN A. SISARCICK	04-R6-0019.0000
BB	MARC AND KRISTEN SEAMON	04-R6-0037.0000
CC	BOARD OF COMMISSIONERS OF OHIO COUNTY	04-R5-0055.0000
DD	BOARD OF COMMISSIONERS OF OHIO COUNTY	04-R5-0010.0000
EE	STACY ANN & PATRICIA ANN GREATHOUSE	03-B46-0041.0000
FF	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0083.0000

REVISIONS:

COMPANY:	SWN Production Company, LLC		
OPERATOR'S WELL #:	RAYLE COAL OHI 3H		
DISTRICT:	COUNTY:	STATE:	
RICHLAND	OHIO	WV	