

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

API 47 - 069 - 00254 County OHIO District LIBERTY
Quad BETHANY Pad Name ROY RIGGLE OHI PAD Field/Pool Name PANHANDLE
Farm name ROY & DEBRA R RIGGLE Well Number ROY RIGGLE 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 4,444,684.906 Easting 540,548.845
Landing Point of Curve Northing 4,444,270.307 Easting 539,998.555
Bottom Hole Northing 4,442,117.851 Easting 540,900.948

Elevation (ft) 1,251.9' 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 12/28/2017 Date drilling commenced 03/26/2018 Date drilling ceased 05/24/2018
Date completion activities began 06/10/2018 Date completion activities ceased 07/14/2018
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 508' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 761' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 628' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed

[Signature] 11-28-18

Reviewed by:
[Signature] 11-28-18

API 47- 069 - 00254 Farm name ROY & DEBRA R RIGGLE Well number ROY RIGGLE 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	685'	NEW	J-55/54.50#		Y, 29 BBLS
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2073'	NEW	J-55/36#		Y, 27 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	14,934'	NEW	HCP-110/20#		Y
Tubing		2.375	7,138'	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	682	15.60	1.20	818.4	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	760	15.60	1.19	904.4	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,741	15.60	1.19	3,261.79	SURFACE	24
Tubing							

Drillers TD (ft) 14,934' Loggers TD (ft) 14,934'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,310'

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 _____

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Roy Riggle OHI 206H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	6/5/2018	14,847	14,752	36
2	6/10/2018	14,716	14,609	42
3	6/11/2018	14,576	14,469	42
4	6/11/2018	14,436	14,329	42
5	6/11/2018	14,296	14,189	42
6	6/12/2018	14,156	14,049	42
7	6/12/2018	14,016	13,909	42
8	6/12/2018	13,876	13,769	42
9	6/12/2018	13,736	13,629	42
10	6/13/2018	13,596	13,489	42
11	6/13/2018	13,456	13,349	42
12	6/13/2018	13,316	13,209	42
13	6/13/2018	13,176	13,069	42
14	6/14/2018	13,036	12,929	42
15	6/14/2018	12,896	12,789	42
16	6/14/2018	12,756	12,649	42
17	6/14/2018	12,616	12,509	42
18	6/16/2018	12,476	12,369	42
19	6/16/2018	12,336	12,229	42
20	6/17/2018	12,196	12,089	42
21	6/17/2018	12,056	11,949	42
22	6/17/2018	11,916	11,809	42
23	6/18/2018	11,776	11,669	42
24	6/18/2018	11,636	11,529	42
25	6/18/2018	11,496	11,389	42
26	6/18/2018	11,356	11,284	33
27	6/18/2018	11,230	11,110	42
28	6/19/2018	11,076	10,969	42
29	6/20/2018	10,936	10,829	42
30	6/20/2018	10,796	10,689	42
31	6/20/2018	10,656	10,549	42
32	6/21/2018	10,516	10,409	42
33	6/21/2018	10,376	10,269	42
34	6/21/2018	10,236	10,129	42
35	6/21/2018	10,096	9,989	42
36	6/21/2018	9,956	9,849	42
37	6/22/2018	9,816	9,709	42
38	6/22/2018	9,676	9,569	42
39	6/22/2018	9,536	9,429	42
40	6/22/2018	9,396	9,293	42
41	6/22/2018	9,256	9,149	42
42	6/22/2018	9,116	9,009	42

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PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
43	6/22/2018	8,976	8,869	42
44	6/23/2018	8,836	8,729	42
45	6/23/2018	8,696	8,589	42
46	6/23/2018	8,556	8,449	42
47	6/23/2018	8,416	8,309	42
48	6/23/2018	8,276	8,169	42
49	6/23/2018	8,136	8,029	42
50	6/23/2018	7,996	7,889	42
51	6/23/2018	7,856	7,749	42
52	6/24/2018	7,716	7,609	42
53	6/24/2018	7,576	7,469	42
54	6/24/2018	7,436	7,329	42
55	6/24/2018	7,296	7,189	42

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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	6/10/2018	83	8,049	7,990	4,518	280,160	4,857	0
2	6/10/2018	87	8,081	6,533	4,573	280,660	4,920	0
3	6/11/2018	89	7,859	6,244	4,527	280,280	4,889	0
4	6/11/2018	66	8,060	6,166	4,359	278,950	4,721	0
5	6/11/2018	88	7,965	6,248	5,111	282,240	4,723	0
6	6/12/2018	88	7,802	6,478	4,787	281,000	4,733	0
7	6/12/2018	88	7,687	5,609	5,140	280,550	4,635	0
8	6/12/2018	88	7,898	5,837	4,498	280,750	4,813	0
9	6/12/2018	87	7,430	6,487	4,834	280,230	4,898	0
10	6/13/2018	89	7,614	6,357	4,834	279,640	4,736	0
11	6/13/2018	86	7,788	5,709	4,769	280,400	4,740	0
12	6/13/2018	85	7,738	5,887	4,833	279,900	4,680	0
13	6/13/2018	87	7,463	6,156	4,701	280,320	4,622	0
14	6/14/2018	81	7,298	6,228	4,793	280,230	4,636	0
15	6/14/2018	86	7,384	6,126	4,843	280,900	4,613	0
16	6/14/2018	86	7,588	5,976	4,481	279,640	4,576	0
17	6/14/2018	88	7,227	6,050	4,812	280,950	4,845	0
18	6/16/2018	85	7,606	6,177	4,682	280,350	5,818	0
19	6/17/2018	88	7,298	6,107	4,948	280,180	4,726	0
20	6/17/2018	85	7,460	5,997	5,043	281,430	4,670	0
21	6/17/2018	86	7,289	6,090	4,767	280,400	4,326	0
22	6/17/2018	87	7,607	6,526	5,202	279,450	4,255	0
23	6/18/2018	86	7,477	6,191	5,050	280,530	4,402	0
24	6/18/2018	86	7,285	6,190	5,182	280,320	4,439	0
25	6/18/2018	85	7,258	6,046	4,774	279,650	4,147	0
26	6/18/2018	81	7,858	6,711	4,723	279,880	4,210	0
27	6/18/2018	87	7,424	6,588	4,598	279,900	4,350	0
28	6/20/2018	85	7,833	6,573	4,563	279,120	4,516	0
29	6/20/2018	84	7,226	6,345	5,013	281,950	4,324	0
30	6/20/2018	85.5	7,202	6,099	5,284	281,370	4,232	0
31	6/21/2018	85.7	7,404	6,448	5,011	280,180	4,179	0
32	6/21/2018	87.4	7,292	6,197	4,536	281,250	4,271	0
33	6/21/2018	86.4	7,270	5,977	4,453	280,770	4,362	0
34	6/21/2018	86.7	7,295	6,119	4,597	280,650	4,183	0
35	6/21/2018	82.6	7,593	5,991	4,605	281,560	4,729	0
36	6/21/2018	86.6	7,421	6,086	4,595	281,300	4,129	0
37	6/22/2018	87	7,376	5,802	4,837	281,540	4,069	0
38	6/22/2018	87.1	7,258	6,447	5,405	280,810	4,156	0
39	6/22/2018	86.5	7,217	6,237	4,504	281,990	4,131	0
40	6/22/2018	84	7,403	6,365	4,402	280,600	4,109	0
41	6/22/2018	84.4	7,567	5,906	4,723	279,920	4,247	0
42	6/22/2018	86.1	7,677	5,995	4,804	281,060	4,289	0
43	6/23/2018	87.3	7,359	6,049	4,985	280,980	4,240	0
44	6/23/2018	86.3	7,285	5,983	5,228	281,660	4,185	0
45	6/23/2018	86.2	7,164	6,402	4,809	281,000	4,097	0
46	6/23/2018	87.4	6,730	5,958	4,714	280,700	4,052	0
47	6/23/2018	87	6,919	6,124	4,658	281,450	4,042	0
48	6/23/2018	87.5	6,748	5,813	4,615	281,000	4,016	0
49	6/23/2018	87.2	6,867	5,961	4,779	279,360	3,782	0
50	6/23/2018	87.2	6,698	5,893	4,438	279,760	3,974	0
51	6/23/2018	86.6	6,819	5,998	4,993	279,400	3,766	0
52	6/24/2018	87.5	6,801	5,955	4,813	280,040	3,961	0
53	6/24/2018	87.8	6,779	5,827	5,054	276,340	3,966	0

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Roy Riggle 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
54	6/24/2018	88	6,630	6,540	4,665	279,200	3,981	0
55	6/24/2018	86.4	6,579	6,110	4,466	275,330	3,905	0

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Well Name: Roy Riggle OHI 206H

47069002540000

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	508.00	508.00	
Top of Salt Water	761.00	761.00	NA	NA	
Pittsburgh Coal	628.00	628.00	633.00	633.00	
Pottsville (ss)	751.00	751.00	860.00	860.00	
Raven Cliff (ss)	1257.00	1257.00	1377.00	1377.00	
Maxton (ss)	1469.00	1469.00	1810.00	1810.00	
Big Injun (ss)	1810.00	1810.00	1959.00	1959.00	
Berea (siltstone)	2320.00	2320.00	5819.00	5819.00	
Rhinstreet (shale)	5819.00	5819.00	6493.00	6076.00	
Cashaqua (shale)	6516.00	6095.00	6592.00	6156.00	
Middlesex (shale)	6592.00	6156.00	6694.00	6234.00	
Burket (shale)	6694.00	6234.00	6725.00	6256.00	
Tully (ls)	6725.00	6256.00	6779.00	6293.00	
Mahantango (shale)	6779.00	6293.00	7061.00	6437.00	
Marcellus (shale)	7061.00	6437.00	NA	NA	GAS

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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	6/10/2018
Job End Date:	6/24/2018
State:	West Virginia
County:	Ohio
API Number:	47-069-00254-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	ROY RIGGLE OHI 206H
Latitude:	40.15153400
Longitude:	-80.52391200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,494
Total Base Water Volume (gal):	10,083,687
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
Water	Southwestern Energy	Carrier/Base Fluid	Water	7732-18-5	100.00000	83.67344	
Sand	J.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	15.34035	
HCL Acid (12.6%-17.5%)	J.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	0.70640	
			Hydrogen Chloride	7647-01-0	17.50000	0.16424	
WFRA-2000	J.S. Well Services, LLC	Friction Reducer	Water	7732-18-5	60.00000	0.04635	
			2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.02317	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01900	
BIOC11219A	Nalco Champion	Anti-Bacterial Agent	Methanol	64-17-5	60.00000	0.01118	
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00711	
			Glutaraldehyde	111-30-8	10.00000	0.00237	

SCAL16486A	Nalco Champion	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00169	
			Amine Triphosphate	Proprietary	30.00000	0.00151	
ParaSolv 300	U.S. Well Services, LLC	Other					
			Citrus Terpenes and Terpene Extractives	Proprietary	90.00000	0.00175	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00036	
			Cinnamaldehyde	104-55-2	20.00000	0.00013	
			Formic acid	64-18-6	20.00000	0.00013	
			Butyl cellosolve	111-76-2	20.00000	0.00011	
			Polyether	60828-78-6	10.00000	0.00006	
			Acetophenone, thiourea, formaldehyde polymer	68527-49-1	5.00000	0.00003	
LT FLUSH SYSTEM I	U.S. Well Services, LLC	Other					
			Mineral oil, petroleum distillates, hydro-treated light naphthenic	64742-53-6	100.00000	0.00061	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

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

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

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

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

SOUTHWESTERN ENERGY



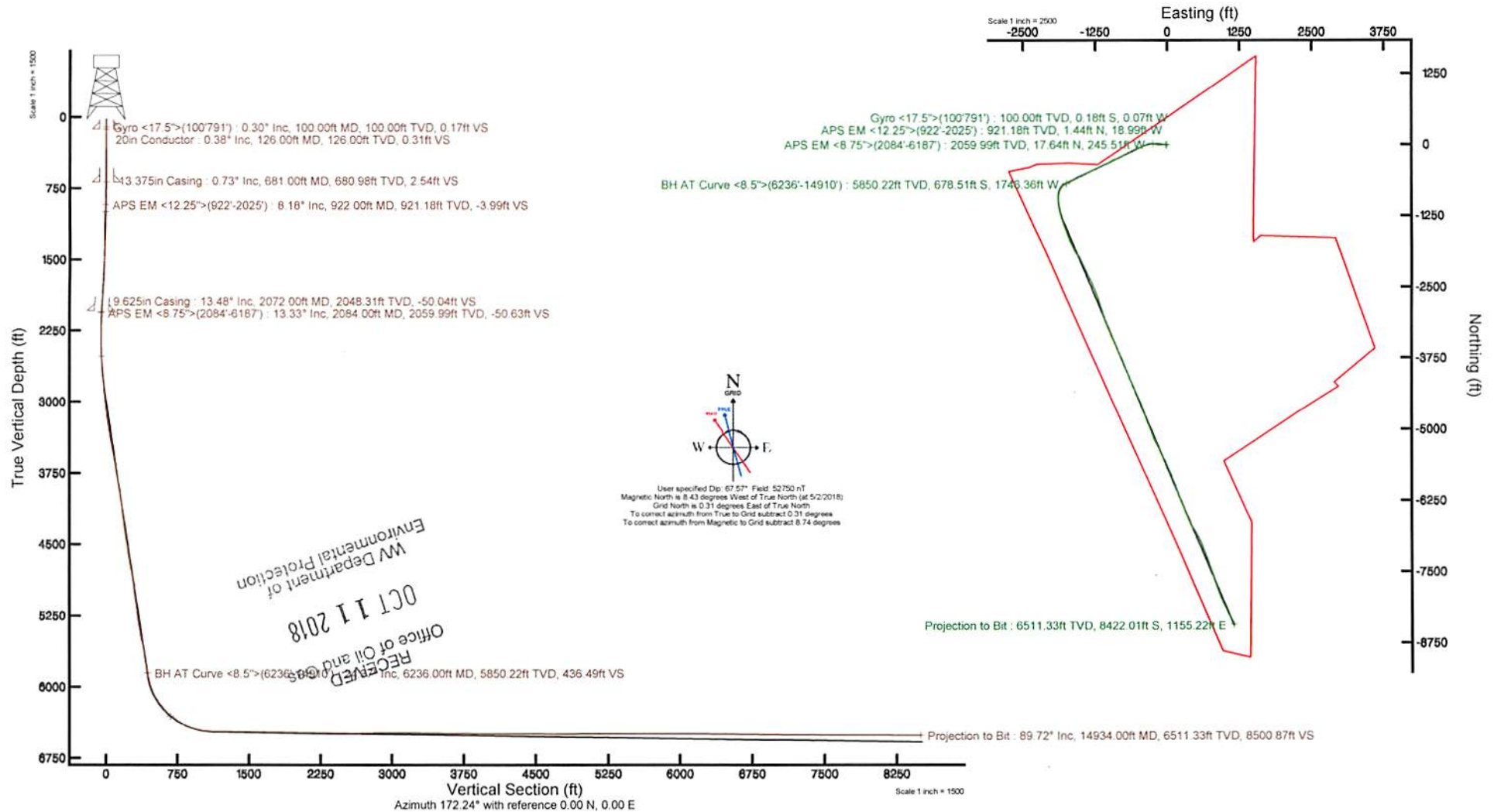
Location: Ohio County, WV Slot: Slot #206
 Field: Ohio Well: Roy Riggle OHI 206H
 Facility: Roy Riggle OHI Pad Wellbore: Roy Riggle OHI 206H PWB

Plot reference wellpath is Roy Riggle OHI 206H PWP Rev-B 0	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to SDC 46 (KB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to SDC 46 (KB)	North Reference: Grid north
SDC 46 (KB) to Mean Sea Level: 1278.54 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot Slot #206) -1252.54 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: thomsuzc on 2018-05-21
	Database: WA_Pennsylvania

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Roy Riggle OHI Pad	1773447.520	14582274.947	40°09'05.569"N	80°31'26.123"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #206	-4.62	3.02	1773450.540	14582270.330	40°09'05.523"N	80°31'26.084"W
SDC 46 (KB) to Ground level (At Slot Slot #206)					26ft	
Mean Sea Level to Ground level (At Slot Slot #206)					-1252.54ft	
SDC 46 (KB) to Mean Sea Level					1278.54ft	



API: 47-069-00254-0000
 Rig: SDC 46
 BH Job #: 9141398
 Duration: 05/05/2018 - 05/15/2018





Actual Wellpath Report

Roy Riggle OHI 206H AWP Proj: 14934'MD
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REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Roy Riggle OHI 206H
Field	Ohio	Wellbore	Roy Riggle OHI 206H AWB
Facility	Roy Riggle OHI Pad		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Thomsuzc
Scale	0.999620	Report Generated	5/21/2018 at 10:25:59 AM
Convergence at slot	0.31° East	Database/Source file	WA_Pennsylvania/Roy_Riggle_OHI_206H_AWP_Proj_14934_MD.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-4.62	3.02	1773450.54	14582270.33	40°09'05.523"N	80°31'26.084"W
Facility Reference Pt			1773447.52	14582274.95	40°09'05.569"N	80°31'26.123"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 46 (KB) to Facility Vertical Datum	1278.54ft
Horizontal Reference Pt	Slot	SDC 46 (KB) to Mean Sea Level	1278.54ft
Vertical Reference Pt	SDC 46 (KB)	SDC 46 (KB) to Ground Level at Slot (Slot #206)	26.00ft
MD Reference Pt	SDC 46 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	172.24°

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Roy Riggle OHI 206H
Field	Ohio	Wellbore	Roy Riggle OHI 206H AWP
Facility	Roy Riggle OHI Pad		

WELLPATH DATA (169 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	200.980	0.00	0.00	0.00	0.00	1773450.54	14582270.33	40°09'05.523"N	80°31'26.084"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	200.980	26.00	0.00	0.00	0.00	1773450.54	14582270.33	40°09'05.523"N	80°31'26.084"W	0.00	0.000	0.00	0.00	0.00
100.00	0.300	200.980	100.00	0.17	-0.18	-0.07	1773450.47	14582270.15	40°09'05.521"N	80°31'26.085"W	0.19	200.980	0.41	0.41	-214.89
200.00	0.620	202.500	200.00	0.87	-0.93	-0.37	1773450.17	14582269.41	40°09'05.514"N	80°31'26.089"W	1.00	201.805	0.32	0.32	1.52
300.00	0.400	188.480	299.99	1.67	-1.77	-0.63	1773449.91	14582268.56	40°09'05.506"N	80°31'26.093"W	1.88	199.551	0.25	-0.22	-14.02
400.00	0.180	226.330	399.99	2.10	-2.22	-0.79	1773449.75	14582268.11	40°09'05.501"N	80°31'26.095"W	2.36	199.642	0.28	-0.22	37.85
500.00	0.520	221.250	499.99	2.49	-2.67	-1.21	1773449.33	14582267.66	40°09'05.497"N	80°31'26.100"W	2.93	204.289	0.34	0.34	-5.08
600.00	0.190	292.410	599.99	2.70	-2.95	-1.66	1773448.88	14582267.38	40°09'05.494"N	80°31'26.106"W	3.39	209.340	0.49	-0.33	71.16
698.00	0.850	271.870	697.98	2.50	-2.87	-2.54	1773448.01	14582267.47	40°09'05.495"N	80°31'26.117"W	3.83	221.503	0.69	0.67	-20.96
791.00	3.590	284.010	790.90	1.30	-2.14	-6.05	1773444.49	14582268.19	40°09'05.502"N	80°31'26.162"W	6.42	250.537	2.97	2.95	13.05
922.00	8.180	286.100	921.18	-3.99	1.44	-18.99	1773431.56	14582271.77	40°09'05.538"N	80°31'26.329"W	19.05	274.339	3.51	3.50	1.60
990.00	9.810	285.510	988.34	-8.24	4.33	-29.22	1773421.33	14582274.66	40°09'05.568"N	80°31'26.460"W	29.54	278.432	2.40	2.40	-0.87
1059.00	11.420	279.550	1056.16	-12.59	7.04	-41.62	1773408.93	14582277.36	40°09'05.595"N	80°31'26.620"W	42.21	279.596	2.82	2.33	-8.64
1152.00	11.220	268.900	1147.36	-16.38	8.39	-59.75	1773390.81	14582278.72	40°09'05.609"N	80°31'26.853"W	60.34	277.994	2.25	-0.22	-11.45
1245.00	9.370	259.140	1238.87	-17.02	6.79	-76.23	1773374.33	14582277.12	40°09'05.594"N	80°31'27.066"W	76.54	275.090	2.73	-1.99	-10.49
1337.00	9.790	259.690	1329.58	-16.27	3.98	-91.29	1773359.29	14582274.31	40°09'05.567"N	80°31'27.260"W	91.37	272.496	0.47	0.46	0.60
1430.00	12.030	267.600	1420.90	-16.82	2.16	-108.75	1773341.83	14582272.49	40°09'05.550"N	80°31'27.485"W	108.77	271.137	2.89	2.41	8.51
1523.00	12.420	274.740	1511.80	-19.89	2.58	-128.40	1773322.19	14582272.91	40°09'05.555"N	80°31'27.738"W	128.43	271.151	1.68	0.42	7.68
1616.00	11.280	272.840	1602.81	-23.73	3.86	-147.45	1773303.14	14582274.18	40°09'05.569"N	80°31'27.983"W	147.50	271.498	1.30	-1.23	-2.04
1708.00	9.690	272.970	1693.28	-26.83	4.70	-164.17	1773286.43	14582275.03	40°09'05.578"N	80°31'28.198"W	164.24	271.641	1.73	-1.73	0.14
1801.00	11.030	279.570	1784.76	-30.94	6.59	-180.76	1773269.84	14582276.92	40°09'05.598"N	80°31'28.412"W	180.88	272.087	1.92	1.44	7.10
1894.00	13.830	282.480	1875.57	-37.43	10.47	-200.39	1773250.22	14582280.80	40°09'05.637"N	80°31'28.664"W	200.67	272.991	3.08	3.01	3.13
1987.00	14.160	279.870	1965.81	-44.72	14.82	-222.45	1773228.17	14582285.15	40°09'05.681"N	80°31'28.948"W	222.95	273.812	0.77	0.35	-2.81
2025.00	14.070	277.460	2002.67	-47.34	16.22	-231.61	1773219.01	14582286.54	40°09'05.696"N	80°31'29.066"W	232.18	274.006	1.56	-0.24	-6.34
2084.00	13.330	274.130	2059.99	-50.63	17.64	-245.51	1773205.13	14582287.96	40°09'05.711"N	80°31'29.245"W	246.14	274.110	1.83	-1.25	-5.64
2177.00	12.790	268.710	2150.59	-54.00	18.18	-266.49	1773184.15	14582288.50	40°09'05.717"N	80°31'29.515"W	267.11	273.903	1.44	-0.58	-5.83
2269.00	12.220	263.450	2240.41	-55.35	16.84	-286.35	1773164.30	14582287.16	40°09'05.705"N	80°31'29.771"W	286.84	273.366	1.38	-0.62	-5.72
2362.00	12.430	260.600	2331.26	-55.27	14.08	-306.00	1773144.65	14582284.41	40°09'05.679"N	80°31'30.024"W	306.33	272.635	0.69	0.23	-3.06
2455.00	13.230	254.620	2421.94	-53.57	9.62	-326.14	1773124.53	14582279.95	40°09'05.636"N	80°31'30.284"W	326.28	271.690	1.67	0.86	-6.43
2550.00	15.130	253.540	2514.05	-50.26	3.23	-348.51	1773102.16	14582273.56	40°09'05.574"N	80°31'30.572"W	348.53	270.531	2.02	2.00	-1.14

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 WV Department of Environmental Protection



REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY
Area	Ohio County, WV
Field	Ohio
Facility	Roy Riggle OHI Pad
Slot	Slot #206
	Roy Riggle OHI 206H
	Well
	Roy Riggle OHI 206H AWB
	Wellbore
	Roy Riggle OHI 206H AWB

WELLPATH DATA (169 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)

2643.00	16.710	249.410	2603.48	-45.45	-4.91	-372.67	1773078.01	14582265.42	80°31'30.884"N	80°31'30.884"W	372.70	269.245	2.09	1.70	-4.44
2736.00	17.530	245.160	2692.36	-38.37	-15.50	-397.90	1773052.79	14582254.84	80°31'31.210"N	80°31'31.210"W	398.20	267.769	1.61	1.88	-4.57
2829.00	19.280	243.560	2780.60	-29.34	-28.22	-424.36	1773026.34	14582242.12	80°31'31.551"N	80°31'31.551"W	425.30	266.195	1.96	1.88	-1.72
2922.00	21.420	243.590	2867.79	-18.99	-42.61	-453.32	1772997.39	14582227.73	80°31'31.925"N	80°31'31.925"W	455.32	264.630	2.30	2.30	0.03
3010.00	22.310	246.940	2949.46	-9.44	-56.30	-483.08	1772967.64	14582214.05	80°31'32.309"N	80°31'32.309"W	486.35	263.352	1.74	1.01	3.81
3104.00	24.440	249.280	3035.75	-0.37	-70.17	-517.69	1772933.05	14582200.18	80°31'32.857"N	80°31'32.857"W	522.42	262.281	2.47	2.27	2.49
3197.00	25.320	248.720	3120.11	8.59	-84.20	-554.22	1772896.54	14582186.16	80°31'33.227"N	80°31'33.227"W	560.58	261.362	0.98	0.95	-0.60
3289.00	24.580	244.160	3203.53	19.13	-99.68	-589.77	1772860.99	14582170.69	80°31'33.686"N	80°31'33.686"W	598.14	260.407	2.24	-0.80	-4.96
3382.00	25.730	240.710	3287.72	32.55	-117.99	-624.79	1772825.99	14582152.39	80°31'34.139"N	80°31'34.139"W	635.83	259.306	2.00	1.24	-3.71
3475.00	27.250	241.840	3370.95	47.38	-137.91	-661.17	1772789.62	14582132.47	80°31'34.608"N	80°31'34.608"W	675.40	258.218	1.72	1.63	1.22
3567.00	29.200	242.970	3452.01	62.38	-158.29	-699.61	1772751.20	14582112.10	80°31'35.105"N	80°31'35.105"W	717.29	257.251	2.13	2.12	0.49
3660.00	28.890	242.970	3533.31	77.53	-179.05	-739.71	1772711.12	14582091.35	80°31'35.623"N	80°31'35.623"W	761.07	256.393	0.49	-0.33	0.73
3753.00	27.230	242.360	3615.38	92.18	-199.13	-778.57	1772672.27	14582071.28	80°31'36.124"N	80°31'36.124"W	803.63	255.653	1.81	-1.78	-0.66
3845.00	27.890	242.130	3696.94	106.74	-218.95	-816.24	1772634.61	14582051.46	80°31'36.611"N	80°31'36.611"W	845.09	254.984	0.73	0.72	-0.25
3938.00	27.660	244.030	3779.23	120.96	-238.58	-854.87	1772595.99	14582031.85	80°31'37.110"N	80°31'37.110"W	887.54	254.407	0.98	-0.25	2.04
4031.00	26.060	244.940	3862.19	133.78	-256.68	-892.79	1772558.09	14582013.75	80°31'37.599"N	80°31'37.599"W	928.95	253.960	1.78	-1.72	0.98
4123.00	23.980	241.280	3945.56	146.48	-274.23	-927.49	1772523.40	14581996.21	80°31'38.047"N	80°31'38.047"W	967.19	253.529	2.82	-2.26	-3.98
4216.00	24.060	244.130	4030.51	159.14	-291.58	-961.13	1772489.78	14581978.86	80°31'38.482"N	80°31'38.482"W	1004.38	253.124	1.25	0.09	3.06
4308.00	25.210	245.530	4114.13	170.60	-307.88	-995.84	1772455.08	14581962.57	80°31'38.930"N	80°31'38.930"W	1042.34	252.820	1.40	1.25	1.52
4401.00	26.250	246.710	4197.91	181.80	-324.22	-1032.76	1772418.18	14581946.24	80°31'39.406"N	80°31'39.406"W	1082.45	252.571	1.25	1.12	1.27
4494.00	24.780	246.640	4281.84	192.55	-340.08	-1069.54	1772381.41	14581930.38	80°31'39.881"N	80°31'39.881"W	1122.31	252.361	1.58	-1.58	-0.08
4585.00	25.110	246.200	4364.35	203.01	-355.43	-1104.71	1772346.25	14581915.03	80°31'40.335"N	80°31'40.335"W	1160.48	252.165	0.42	0.36	-0.48
4677.00	27.030	244.370	4446.99	214.82	-372.35	-1141.43	1772309.55	14581898.12	80°31'40.809"N	80°31'40.809"W	1200.63	251.933	2.26	2.09	-1.99
4770.00	27.100	243.900	4529.80	227.97	-390.81	-1179.50	1772271.49	14581879.67	80°31'41.301"N	80°31'41.301"W	1242.56	251.668	0.24	0.08	-0.51
4863.00	25.340	243.470	4613.23	241.04	-409.02	-1216.33	1772234.67	14581861.46	80°31'41.776"N	80°31'41.776"W	1283.26	251.413	1.90	-1.89	-0.46
4955.00	26.310	241.990	4696.04	254.44	-427.39	-1251.95	1772199.07	14581843.10	80°31'42.236"N	80°31'42.236"W	1322.89	251.151	1.27	1.05	-1.61
5048.00	27.980	241.250	4778.80	269.38	-447.57	-1289.28	1772161.76	14581822.93	80°31'42.718"N	80°31'42.718"W	1364.75	250.856	1.83	1.80	-0.80
5141.00	26.380	246.080	4861.53	282.95	-466.44	-1327.30	1772123.75	14581804.07	80°31'43.209"N	80°31'43.209"W	1406.87	250.637	2.93	-1.72	5.19
5234.00	24.780	245.830	4945.42	294.21	-482.80	-1363.97	1772087.09	14581787.72	80°31'43.682"N	80°31'43.682"W	1446.89	250.508	1.72	-1.72	-0.27
5326.00	25.600	243.950	5028.67	305.89	-499.42	-1399.41	1772051.66	14581771.10	80°31'44.140"N	80°31'44.140"W	1485.86	250.360	1.25	0.89	-2.04

WV Department of Environmental Protection

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Roy Riggle OHI 206H
Field	Ohio	Wellbore	Roy Riggle OHI 206H AWB
Facility	Roy Riggle OHI Pad		

WELLPATH DATA (169 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]
5419.00	25.630	248.370	5112.53	317.02	-515.66	-1436.17	1772014.92	14581754.87	40°09'00.503"N	80°31'44.615"W	1525.94	250.249	2.05	0.03	4.75
5512.00	23.930	245.530	5196.97	327.27	-530.89	-1472.03	1771979.07	14581739.64	40°09'00.354"N	80°31'45.077"W	1564.84	250.168	2.23	-1.83	-3.05
5605.00	24.640	246.140	5281.74	338.07	-546.54	-1506.93	1771944.18	14581723.99	40°09'00.202"N	80°31'45.528"W	1602.98	250.065	0.81	0.76	0.66
5697.00	25.520	242.040	5365.07	350.23	-563.60	-1541.98	1771909.15	14581706.95	40°09'00.035"N	80°31'45.980"W	1641.75	249.923	2.12	0.96	-4.46
5790.00	27.300	239.090	5448.37	365.53	-583.95	-1577.98	1771873.17	14581686.61	40°08'59.836"N	80°31'46.445"W	1682.56	249.692	2.38	1.91	-3.17
5882.00	27.240	236.110	5530.15	383.10	-606.53	-1613.56	1771837.60	14581664.04	40°08'59.614"N	80°31'46.905"W	1723.79	249.399	1.49	-0.07	-3.24
5975.00	25.950	243.840	5613.33	398.90	-627.37	-1649.50	1771801.67	14581643.20	40°08'59.410"N	80°31'47.369"W	1764.78	249.176	3.97	-1.39	8.31
6068.00	24.350	240.270	5697.51	412.50	-645.85	-1684.42	1771766.76	14581624.72	40°08'59.230"N	80°31'47.820"W	1803.99	249.022	2.37	-1.72	-3.84
6161.00	24.790	242.080	5782.10	426.39	-664.49	-1718.30	1771732.90	14581606.09	40°08'59.047"N	80°31'48.258"W	1842.30	248.858	0.94	0.47	1.95
6187.00	24.940	243.670	5805.69	430.02	-669.47	-1728.03	1771723.17	14581601.11	40°08'58.998"N	80°31'48.383"W	1853.18	248.823	2.64	0.58	6.12
6236.00	24.370	243.880	5850.22	436.49	-678.51	-1746.36	1771704.85	14581592.08	40°08'58.910"N	80°31'48.620"W	1873.54	248.768	1.18	-1.16	0.43
6337.00	27.160	238.320	5941.18	452.41	-699.79	-1784.70	1771666.52	14581570.80	40°08'58.702"N	80°31'49.115"W	1917.00	248.589	3.65	2.76	-5.50
6430.00	31.230	223.600	6022.46	476.11	-728.45	-1819.45	1771631.78	14581542.16	40°08'58.420"N	80°31'49.565"W	1959.86	248.180	8.85	4.38	-15.83
6522.00	33.980	209.310	6100.07	511.58	-768.21	-1848.53	1771602.71	14581502.42	40°08'58.029"N	80°31'49.942"W	2001.80	247.433	8.87	2.99	-15.53
6615.00	38.470	196.920	6175.17	558.69	-818.64	-1869.71	1771581.54	14581452.00	40°08'57.532"N	80°31'50.218"W	2041.08	246.354	9.22	4.83	-13.32
6708.00	44.510	186.640	6244.88	616.67	-878.82	-1881.93	1771569.33	14581391.85	40°08'56.938"N	80°31'50.380"W	2077.01	244.968	9.77	6.49	-11.05
6800.00	49.790	181.140	6307.46	682.68	-946.05	-1886.36	1771564.90	14581324.64	40°08'56.274"N	80°31'50.441"W	2110.30	243.365	7.22	5.74	-5.98
6893.00	57.020	175.520	6362.89	756.85	-1020.58	-1884.02	1771567.24	14581250.14	40°08'55.537"N	80°31'50.416"W	2142.68	241.555	9.16	7.77	-6.04
6986.00	63.710	171.600	6408.86	837.59	-1100.82	-1874.87	1771576.39	14581169.93	40°08'54.744"N	80°31'50.304"W	2174.15	239.581	8.07	7.19	-4.22
7032.00	68.410	167.810	6427.53	879.57	-1142.16	-1867.33	1771583.92	14581128.60	40°08'54.335"N	80°31'50.210"W	2188.94	238.548	12.69	10.22	-8.24
7078.00	72.920	165.640	6442.76	922.76	-1184.39	-1857.36	1771593.89	14581086.39	40°08'53.917"N	80°31'50.084"W	2202.85	237.475	10.77	9.80	-4.72
7125.00	77.560	164.430	6454.73	967.84	-1228.29	-1845.62	1771605.63	14581042.51	40°08'53.482"N	80°31'49.936"W	2216.98	236.356	10.18	9.87	-2.57
7171.00	81.660	163.460	6463.02	1012.60	-1271.76	-1833.11	1771618.13	14580999.06	40°08'53.052"N	80°31'49.778"W	2231.06	235.248	9.15	8.91	-2.11
7217.00	85.690	162.590	6468.09	1057.72	-1315.47	-1819.76	1771631.48	14580955.36	40°08'52.619"N	80°31'49.609"W	2245.44	234.137	8.96	8.76	-1.89
7264.00	89.420	161.760	6470.09	1103.94	-1360.17	-1805.39	1771645.84	14580910.68	40°08'52.177"N	80°31'49.427"W	2260.42	233.006	8.13	7.94	-1.77
7357.00	89.350	161.330	6471.09	1195.32	-1448.38	-1775.95	1771675.27	14580822.50	40°08'51.304"N	80°31'49.054"W	2291.68	230.801	0.47	-0.08	-0.46
7449.00	89.540	160.250	6471.98	1285.49	-1535.25	-1745.68	1771705.53	14580735.66	40°08'50.444"N	80°31'48.670"W	2324.74	228.670	1.19	0.21	-1.17
7542.00	89.350	158.990	6472.89	1376.23	-1622.43	-1713.30	1771737.90	14580648.52	40°08'49.581"N	80°31'48.259"W	2359.59	226.560	1.37	-0.20	-1.35
7635.00	89.230	157.280	6474.04	1466.42	-1708.73	-1678.66	1771772.52	14580562.26	40°08'48.726"N	80°31'47.819"W	2395.34	224.492	1.84	-0.13	-1.84
7728.00	89.140	155.340	6475.36	1555.83	-1793.88	-1641.30	1771809.86	14580477.14	40°08'47.888"N	80°31'47.343"W	2431.43	222.457	2.09	-0.10	-2.09

WV Department of Environmental Protection

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Actual Wellpath Report

Roy Riggle OHI 206H AWP Proj: 14934'MD
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Roy Riggle OHI 206H
Field	Ohio	Wellbore	Roy Riggle OHI 206H AWB
Facility	Roy Riggle OHI Pad		

WELLPATH DATA (169 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]
7820.00	89.050	147.880	6476.82	1641.86	-1874.74	-1597.60	1771853.55	14580396.30	40°08'47.081"N	80°31'46.786"W	2463.12	220.437	8.11	-0.10	-8.11
7913.00	89.320	147.170	6478.14	1726.33	-1953.19	-1547.67	1771903.46	14580317.88	40°08'46.303"N	80°31'46.148"W	2492.03	218.393	0.82	0.29	-0.76
8005.00	89.200	152.250	6479.33	1811.28	-2032.60	-1501.28	1771949.83	14580238.50	40°08'45.516"N	80°31'45.557"W	2526.92	216.450	5.52	-0.13	5.52
8098.00	89.260	157.570	6480.58	1900.02	-2116.79	-1461.87	1771989.23	14580154.35	40°08'44.682"N	80°31'45.055"W	2572.52	214.629	5.72	0.06	5.72
8191.00	89.050	154.060	6481.95	1989.20	-2201.60	-1423.78	1772027.31	14580069.57	40°08'43.842"N	80°31'44.570"W	2621.87	212.891	3.78	-0.23	-3.77
8284.00	89.170	153.180	6483.39	2077.32	-2284.91	-1382.46	1772068.61	14579986.29	40°08'43.017"N	80°31'44.044"W	2670.58	211.176	0.95	0.13	-0.95
8377.00	89.230	153.690	6484.69	2165.35	-2368.08	-1340.87	1772110.18	14579903.15	40°08'42.193"N	80°31'43.514"W	2721.35	209.520	0.55	0.06	0.55
8469.00	89.110	155.620	6486.03	2253.03	-2451.21	-1301.50	1772149.54	14579820.05	40°08'41.369"N	80°31'43.012"W	2775.31	207.967	2.10	-0.13	2.10
8562.00	89.140	157.460	6487.45	2342.55	-2536.51	-1264.48	1772186.55	14579734.79	40°08'40.524"N	80°31'42.542"W	2834.22	206.497	1.98	0.03	1.98
8655.00	89.140	159.920	6488.84	2432.94	-2623.14	-1230.69	1772220.32	14579648.19	40°08'39.666"N	80°31'42.112"W	2897.49	205.134	2.64	0.00	2.65
8748.00	89.600	161.510	6489.87	2524.06	-2710.91	-1199.97	1772251.02	14579560.46	40°08'38.797"N	80°31'41.723"W	2964.62	203.876	1.78	0.49	1.71
8840.00	89.820	161.430	6490.33	2614.44	-2798.14	-1170.74	1772280.25	14579473.26	40°08'37.934"N	80°31'41.352"W	3033.18	202.704	0.25	0.24	-0.09
8933.00	91.630	163.140	6489.15	2706.02	-2886.72	-1142.44	1772308.53	14579384.72	40°08'37.057"N	80°31'40.994"W	3104.56	201.592	2.68	1.95	1.84
9026.00	90.310	162.390	6487.58	2797.74	-2975.52	-1114.89	1772336.07	14579295.94	40°08'36.178"N	80°31'40.646"W	3177.53	200.540	1.63	-1.42	-0.81
9119.00	90.180	161.190	6487.18	2889.19	-3063.86	-1085.83	1772365.12	14579207.64	40°08'35.304"N	80°31'40.277"W	3250.58	199.514	1.30	-0.14	-1.29
9212.00	90.340	160.490	6486.76	2980.36	-3151.71	-1055.31	1772395.63	14579119.82	40°08'34.434"N	80°31'39.890"W	3323.70	198.512	0.77	0.17	-0.75
9304.00	90.400	157.040	6486.17	3069.81	-3237.45	-1021.99	1772428.94	14579034.12	40°08'33.585"N	80°31'39.467"W	3394.93	197.520	3.75	0.07	-3.75
9397.00	89.630	156.140	6486.14	3159.36	-3322.79	-985.04	1772465.87	14578948.81	40°08'32.740"N	80°31'38.997"W	3465.73	196.512	1.27	-0.83	-0.97
9490.00	89.450	156.330	6486.89	3248.75	-3407.90	-947.57	1772503.34	14578863.73	40°08'31.897"N	80°31'38.521"W	3537.19	195.539	0.28	-0.19	0.20
9582.00	89.110	156.830	6488.04	3337.33	-3492.32	-911.00	1772539.89	14578779.35	40°08'31.060"N	80°31'38.056"W	3609.18	194.620	0.66	-0.37	0.54
9675.00	89.570	155.550	6489.12	3426.70	-3577.39	-873.46	1772577.41	14578694.30	40°08'30.218"N	80°31'37.578"W	3682.48	193.721	1.46	0.49	-1.38
9768.00	89.510	155.750	6489.86	3515.82	-3662.12	-835.12	1772615.74	14578609.61	40°08'29.378"N	80°31'37.090"W	3756.13	192.846	0.22	-0.06	0.22
9861.00	89.450	156.700	6490.71	3605.21	-3747.22	-797.63	1772653.22	14578524.54	40°08'28.536"N	80°31'36.613"W	3831.17	192.017	1.02	-0.06	1.02
9953.00	89.630	158.410	6491.44	3694.20	-3832.25	-762.50	1772688.33	14578439.55	40°08'27.693"N	80°31'36.167"W	3907.37	191.253	1.87	0.20	1.86
10046.00	89.540	158.320	6492.12	3784.48	-3918.69	-728.22	1772722.60	14578353.13	40°08'26.837"N	80°31'35.731"W	3985.78	190.527	0.14	-0.10	-0.10
10139.00	89.450	159.140	6492.94	3874.90	-4005.35	-694.48	1772756.32	14578266.51	40°08'25.979"N	80°31'35.303"W	4065.12	189.837	0.89	-0.10	0.88
10232.00	89.570	156.690	6493.73	3965.00	-4091.52	-659.52	1772791.27	14578180.37	40°08'25.126"N	80°31'34.859"W	4144.33	189.157	2.64	0.13	-2.63
10325.00	89.540	156.420	6494.46	4054.53	-4176.84	-622.52	1772828.26	14578095.09	40°08'24.281"N	80°31'34.388"W	4222.97	188.477	0.29	-0.03	-0.29
10417.00	89.600	156.560	6495.15	4143.08	-4261.20	-585.82	1772864.94	14578010.76	40°08'23.445"N	80°31'33.921"W	4301.28	187.828	0.17	0.07	0.15
10510.00	89.540	156.770	6495.84	4232.66	-4346.59	-548.98	1772901.77	14577925.40	40°08'22.599"N	80°31'33.453"W	4381.12	187.198	0.23	-0.06	0.23

WV Department of Environmental Protection

OCT 11 2018

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Office of Oil and Gas



REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY
Area	Ohio County, WV
Field	Ohio
Facility	Roy Riggle OHI Pad
Wellbore	Roy Riggle OHI 206H AWP
Well	Roy Riggle OHI 206H
Slot	Slot #206

WELLPATH DATA (169 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]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
10603.00	89.510	155.910	6496.62	4322.10	-4431.77	-511.66	1772939.07	14577840.25	40°08'21.756"N	80°31'32.978"W	4461.21	186.586	0.93	-0.03	-0.92
10695.00	89.940	156.330	6497.06	4410.48	-4515.89	-474.42	1772976.30	14577756.16	40°08'20.923"N	80°31'32.504"W	4540.74	185.997	0.65	0.47	0.46
10788.00	89.850	157.890	6497.23	4500.25	-4601.57	-438.87	1773012.46	14577670.52	40°08'20.074"N	80°31'32.045"W	4622.39	185.440	1.68	-0.10	1.68
10881.00	89.820	161.350	6497.50	4590.99	-4688.73	-405.87	1773044.83	14577583.39	40°08'19.211"N	80°31'31.634"W	4706.26	184.947	3.72	-0.03	3.72
10974.00	89.910	161.660	6497.71	4682.36	-4776.93	-376.36	1773074.32	14577495.28	40°08'18.338"N	80°31'31.260"W	4791.73	184.505	0.35	0.10	0.33
11067.00	89.970	158.590	6497.81	4773.28	-4864.38	-344.75	1773105.92	14577407.81	40°08'17.472"N	80°31'30.859"W	4876.58	184.054	3.30	0.06	-3.30
11159.00	90.150	158.710	6497.72	4862.71	-4950.06	-311.26	1773139.40	14577322.16	40°08'16.623"N	80°31'30.433"W	4959.84	183.598	0.24	0.20	0.13
11252.00	90.220	159.450	6497.42	4953.26	-5036.93	-278.05	1773172.60	14577235.32	40°08'15.763"N	80°31'30.012"W	5044.60	183.160	0.80	0.08	0.80
11345.00	90.090	157.950	6497.16	5043.67	-5123.58	-244.27	1773206.36	14577148.71	40°08'14.905"N	80°31'29.583"W	5129.40	182.730	1.62	-0.14	-1.61
11437.00	90.220	154.680	6496.91	5132.13	-5207.82	-207.32	1773243.30	14577064.50	40°08'14.071"N	80°31'29.113"W	5211.94	182.280	3.56	0.14	-3.55
11530.00	90.340	154.530	6496.46	5220.76	-5291.83	-167.43	1773283.17	14576980.52	40°08'13.239"N	80°31'28.605"W	5294.48	181.812	0.21	0.13	-0.16
11622.00	90.340	154.990	6495.91	5308.51	-5375.04	-128.21	1773322.38	14576897.34	40°08'12.414"N	80°31'28.106"W	5376.57	181.366	0.50	0.00	0.50
11715.00	89.880	154.360	6495.74	5397.17	-5459.11	-88.42	1773362.15	14576813.31	40°08'11.581"N	80°31'27.599"W	5459.82	180.928	0.84	-0.49	-0.68
11808.00	89.850	154.340	6495.95	5485.68	-5542.94	-48.17	1773402.39	14576729.51	40°08'10.751"N	80°31'27.087"W	5543.15	180.498	0.04	-0.03	-0.02
11901.00	89.910	156.060	6496.15	5574.59	-5627.36	-9.16	1773441.38	14576645.12	40°08'09.914"N	80°31'26.590"W	5627.37	180.093	1.85	0.06	1.85
11994.00	89.940	156.830	6496.27	5664.08	-5712.61	28.01	1773478.53	14576559.90	40°08'09.070"N	80°31'26.118"W	5712.68	179.719	0.83	0.03	0.83
12087.00	89.850	156.930	6496.44	5753.76	-5798.14	64.52	1773515.04	14576474.40	40°08'08.223"N	80°31'25.654"W	5798.50	179.362	0.14	-0.10	0.11
12179.00	89.880	157.600	6496.66	5842.63	-5882.99	100.08	1773550.58	14576389.58	40°08'07.383"N	80°31'25.202"W	5883.84	179.025	0.73	0.03	0.73
12272.00	89.940	160.410	6496.80	5933.15	-5969.81	133.39	1773583.88	14576302.80	40°08'06.523"N	80°31'24.779"W	5971.30	178.720	3.02	0.06	3.02
12364.00	89.910	161.130	6496.92	6023.31	-6056.68	163.70	1773614.17	14576215.97	40°08'05.663"N	80°31'24.395"W	6058.89	178.452	0.78	-0.03	0.78
12457.00	89.880	160.590	6497.10	6114.48	-6144.53	194.19	1773644.65	14576128.14	40°08'04.793"N	80°31'24.008"W	6147.60	178.190	0.58	-0.03	-0.58
12550.00	89.880	156.740	6497.29	6204.87	-6231.14	228.02	1773678.47	14576041.56	40°08'03.935"N	80°31'23.579"W	6235.31	177.904	4.14	0.00	-4.14
12643.00	89.940	156.780	6497.44	6294.49	-6316.60	264.71	1773715.15	14575956.14	40°08'03.089"N	80°31'23.112"W	6322.14	177.600	0.08	0.06	0.04
12736.00	89.420	157.170	6497.66	6384.21	-6402.19	301.09	1773751.51	14575870.59	40°08'02.241"N	80°31'22.650"W	6409.26	177.307	0.70	-0.56	0.42
12829.00	89.420	160.190	6498.90	6474.60	-6488.81	334.89	1773785.31	14575784.00	40°08'01.383"N	80°31'22.220"W	6497.44	177.046	3.25	0.00	3.25
12922.00	89.380	158.530	6499.87	6565.26	-6575.83	367.67	1773818.07	14575697.01	40°08'00.522"N	80°31'21.804"W	6586.10	176.800	1.79	-0.04	-1.78
13014.00	89.510	154.440	6500.76	6653.78	-6660.17	404.37	1773854.76	14575612.70	40°07'59.686"N	80°31'21.338"W	6672.43	176.526	4.45	0.14	-4.45
13107.00	89.420	148.400	6501.63	6740.66	-6741.80	448.84	1773899.21	14575531.11	40°07'58.877"N	80°31'20.771"W	6756.72	176.191	6.50	-0.10	-6.49
13200.00	89.350	148.780	6502.63	6825.84	-6821.16	497.30	1773947.65	14575451.77	40°07'58.091"N	80°31'20.152"W	6839.27	175.830	0.42	-0.08	0.41
13292.00	89.290	152.840	6503.72	6911.46	-6901.46	542.16	1773992.49	14575371.51	40°07'57.295"N	80°31'19.580"W	6922.72	175.508	4.41	-0.07	4.41

Actual Wellpath Report

Roy Riggle OHI 206H AWP Proj: 14934'MD



REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY
Area	Ohio County, WV
Field	Ohio
Facility	Roy Riggle OHI Pad
Slot	Slot #206
Well	Roy Riggle OHI 206H
Wellbore	Roy Riggle OHI 206H AWB

WELLPATH DATA (169 stations)

MD	Inclination	TVL	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)	
13385.00	89.570	156.550	6504.65	7000.11	-6985.51	581.90	1774032.22	14575287.48	40°07'56.462"N	80°31'19.075"W	7009.71	175.238	4.00	0.30	3.99
13478.00	89.720	158.940	6505.22	7090.15	-7071.58	617.12	1774067.43	14575201.45	40°07'55.610"N	80°31'18.627"W	7098.45	175.013	2.57	0.16	2.57
13571.00	89.600	150.100	6505.78	7180.68	-7158.41	650.42	1774100.71	14575114.65	40°07'54.750"N	80°31'18.204"W	7187.90	174.808	0.22	-0.13	0.17
13664.00	89.660	160.710	6506.38	7271.53	-7245.75	682.37	1774132.65	14575027.35	40°07'53.885"N	80°31'17.799"W	7277.81	174.620	1.73	0.06	1.73
13756.00	89.630	161.010	6506.95	7361.72	-7332.66	712.53	1774162.80	14574940.47	40°07'53.025"N	80°31'17.417"W	7367.20	174.450	0.33	-0.03	0.33
13849.00	89.660	161.320	6507.52	7452.98	-7420.68	742.56	1774192.81	14574852.49	40°07'52.153"N	80°31'17.036"W	7457.74	174.286	0.33	0.03	0.33
13941.00	89.690	159.840	6508.04	7543.08	-7507.44	773.15	1774223.39	14574765.76	40°07'51.294"N	80°31'16.649"W	7547.14	174.120	1.61	0.03	-1.61
14034.00	90.150	161.820	6508.17	7634.24	-7556.28	803.68	1774253.92	14574677.95	40°07'50.424"N	80°31'16.262"W	7637.68	173.960	2.19	0.49	2.13
14127.00	89.820	160.630	6508.20	7725.52	-7683.33	833.61	1774283.84	14574589.94	40°07'49.553"N	80°31'15.882"W	7728.42	173.808	1.33	-0.35	-1.28
14219.00	89.750	161.970	6508.54	7815.85	-7770.47	863.11	1774313.32	14574502.83	40°07'48.690"N	80°31'15.509"W	7818.25	173.652	1.46	-0.08	1.46
14312.00	89.820	161.010	6508.89	7907.21	-7858.65	892.63	1774342.83	14574414.68	40°07'47.817"N	80°31'15.135"W	7909.19	173.520	1.03	0.08	-1.03
14405.00	89.850	157.290	6509.16	7997.78	-7945.55	925.73	1774375.91	14574327.81	40°07'46.957"N	80°31'14.715"W	7999.29	173.354	4.00	0.03	-4.00
14497.00	89.720	154.400	6509.51	8086.03	-8029.48	963.37	1774413.54	14574243.91	40°07'46.125"N	80°31'14.236"W	8087.07	173.158	3.14	-0.14	-3.14
14590.00	89.780	154.840	6509.91	8174.67	-8113.51	1003.23	1774453.39	14574159.92	40°07'45.293"N	80°31'13.729"W	8175.30	172.951	0.48	0.06	0.47
14683.00	89.720	154.670	6510.32	8263.37	-8197.62	1042.90	1774493.04	14574075.84	40°07'44.459"N	80°31'13.224"W	8263.70	172.750	0.19	-0.06	-0.18
14776.00	89.780	154.460	6510.72	8351.98	-8281.61	1082.84	1774532.96	14573991.88	40°07'43.627"N	80°31'12.715"W	8352.10	172.551	0.23	0.06	-0.23
14868.00	89.820	152.830	6511.05	8439.17	-8364.04	1123.68	1774573.79	14573909.48	40°07'42.811"N	80°31'12.195"W	8439.19	172.348	1.77	0.04	-1.77
14910.00	89.720	150.810	6511.21	8478.53	-8401.06	1143.51	1774593.61	14573872.47	40°07'42.444"N	80°31'11.943"W	8478.53	172.249	4.82	-0.24	-4.81
14934.00	89.720	150.810	6511.33	8500.87	-8422.01	1155.22	1774605.31	14573851.53	40°07'42.236"N	80°31'11.793"W	8500.87	172.190	0.00	0.00	0.00

REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Roy Riggle OHI 206H
Field	Ohio	Wellbore	Roy Riggle OHI 206H AWB
Facility	Roy Riggle OHI Pad		

COMMENTS
<p>Wellpath general comments API: 47-069-00254-0000 Rig: SDC 46 BH Job #: 9141398 Duration: 05/05/2018 - 05/15/2018</p>

Latitude: 40°10'00" SURFACE HOLE 6,683'

Latitude: 40°10'00" BOTTOM HOLE 5,573'

JACKSON SURVEYING INC.

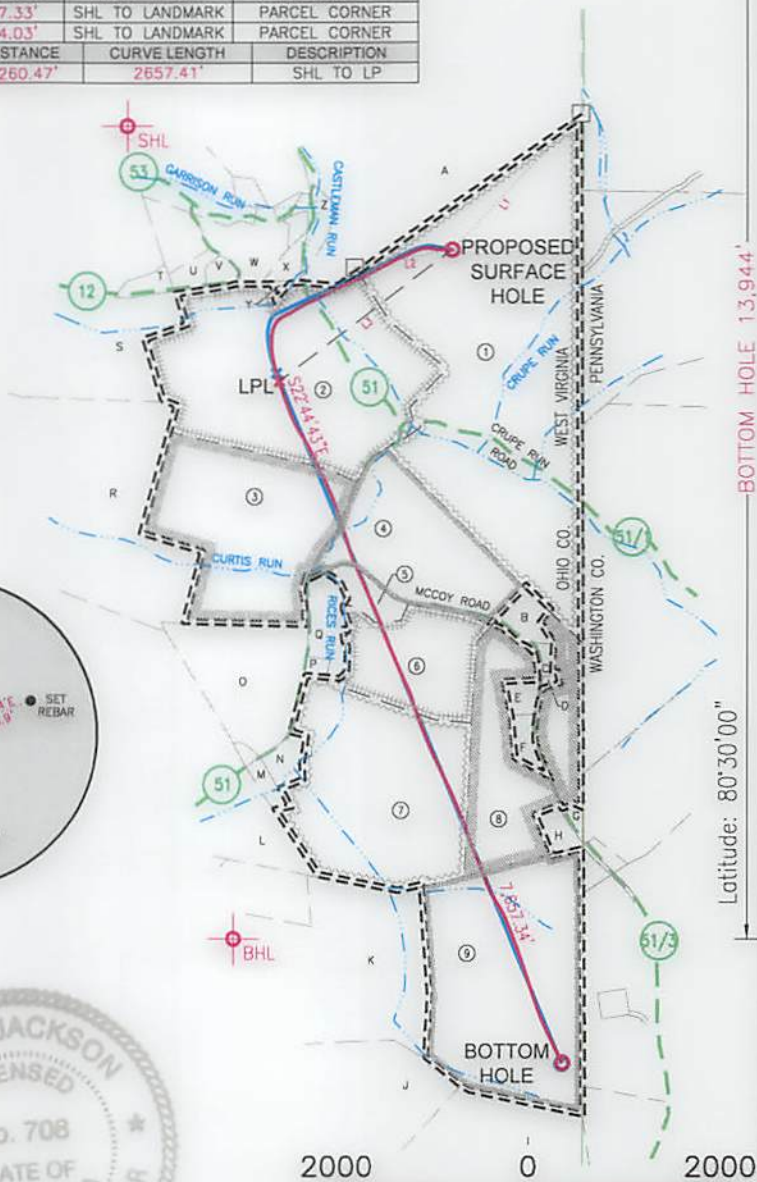
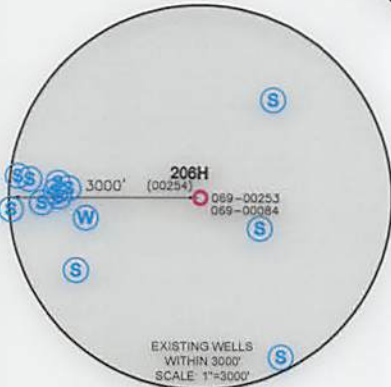
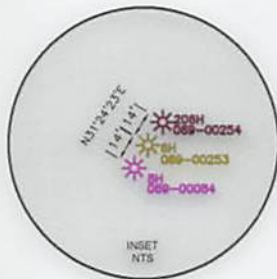
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Clarksburg, WV 26302
304-623-5851

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

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS
Table with 4 columns: TRACT, SURFACE OWNER (S) / ROYALTY OWNER (R), TAX PARCEL, ACRES

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT

Location data for Surface Hole (SHL), Landing Point (LPL), and Bottom Hole (BHL) including UTM coordinates and bearings.



WELL RESTRICTIONS

- List of 6 restrictions regarding well placement, agriculture, water bodies, and ground intake.

NOTES ON SURVEY

- Notes regarding owner information, survey accuracy, and map representation.

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. 708

David L. Jackson



GRAPHIC SCALE IN FEET

COMPANY: SWN Production Company, LLC

Table with well details including location, accuracy, proven source, and API well numbers.

Table with well type, watershed, district, county, owner, and drilling options.

Table with well operator, designated agent, address, and city/state/zip information.

Table with legend, revisions, and drawing information.

JACKSON SURVEYING INC.
 P. O. Box 1460
 677 W. Main St.
 Clarksburg, WV 26302
 304-623-8811

LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444,884,808 EASTING: 540,548,845
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444,270,307 EASTING: 539,988,555
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4442,173,891 EASTING: 540,900,948
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444,884,808 EASTING: 540,548,808
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444,297,399 EASTING: 539,980,232
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4442,114,704 EASTING: 540,889,189

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS

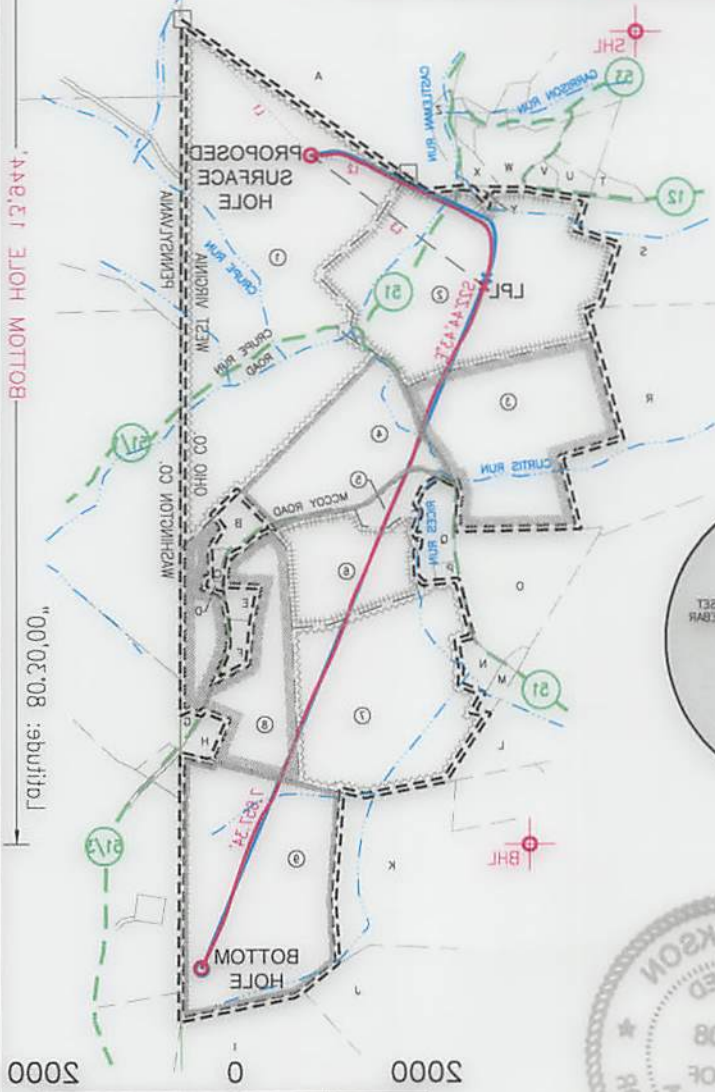
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	ROY RIGGLE AND DEBRA R. RIGGLE (2) (R)	03-18-0014-0000	171.8125
2	GREGORY N. MORANIS AND SHARON LEE MORANIS (2)	03-18-0013-0000	102.00
3	WILLIAM I. RODGERS (LIFE) AND LEWIS IRWIN RODGERS (REMAINDER) (2)	03-18-0018-0000	49.7175
4	WILLIAM I. RODGERS (LIFE) AND LEWIS IRWIN RODGERS (REMAINDER) (2)	03-18-0017-0002	2.893
5	WILLIAM I. RODGERS (LIFE) AND DOUGLAS WAYNE RODGERS (REMAINDER) (2)	03-18-0017-0000	29.882
6	DELMAR K. LOEW AND VIRGINIA G. LOEW	03-18-0018-0002	17.073
7	MICHAEL WILHELM AND JULIA E. WILHELM (2)	03-18-0020-0000	22.89
8	DAVID J. HALL AND CYNTHIA L. HALL (2)	03-19-0003-0000	57.125

LINE	BEARING	DISTANCE	DESCRIPTION
L1	N 43°28'21" E	1947.23	SHL TO LANDMARK
L2	S 29°59'19" W	1024.03	SHL TO LANDMARK
L3	S 23°00'18" W	2280.43	CURVE LENGTH
		2857.41	SHL TO LP

LINE	BEARING	DISTANCE	DESCRIPTION
L1	N 43°28'21" E	1947.23	SHL TO LANDMARK
L2	S 29°59'19" W	1024.03	SHL TO LANDMARK
L3	S 23°00'18" W	2280.43	CURVE LENGTH
		2857.41	SHL TO LP

Latitude: 40°10'00" | SURFACE HOLE 6,883' | BOTTOM HOLE 2,573'

Longitude: 80°30'00" | BOTTOM HOLE 17,844' | SURFACE HOLE 2,213'



GRAPHIC SCALE IN FEET
 0 2000 2000

swm Production Company, LLC
 COMPANY: swm



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

WELL RESTRICTIONS
 1. NO OCCUPIED DWELLINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
 2. NO AGRICULTURE BUILDINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
 3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELLS.
 4. NO PERMANENT STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD. LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

WELL LOCATION PLAT
 DRAWING NO: _____
 SCALE: 1" = 2000'
 DRAWN BY: N. MAHO
 REVISIONS: _____
 DATE: 09-19-2018

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

DESIGNATED AGENT: BRITTANY WOODY
ESTIMATED DEPTH: 6,211' TVD 14,934' TMD

TARGET FORMATION: MARCELLUS
CONVERT **PLUG & ABANDON** **CLEAN OUT & REPLUG** **OTHER CHANGE** (SPECIFY) **ADRIILLED**
DRILL DEEPER **REDRILL** **FRACURE OR STIMULATE** **PLUG OFF OLD FORMATION** **PERFORATE NEW FORMATION**

OIL & GAS ROYALTY OWNER: ROY & DEBRA R. RIGGLE
SURFACE OWNER: ROY & DEBRA R. RIGGLE
DISTRICT: LIBERTY
WATERSHED: CASTLEMAN RUN

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

ELEVATION: 1,251.9' ±
QUADRANGLE: BETHANY, WV-PA
ACREAGE: ±171.18
ACREAGE: ±171.18

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

UNITED STATES TOPOGRAPHIC MAPS
 (+) DENOTES LOCATION OF WELL ON
 ACCURACY: 1/500
 PROVEN SOURCE OF GRADE GPS SURVEY
 ELEVATION: (NAD 88, US FT)



API WELL #: 47
STATE: WV
COUNTY: BETHANY
PERMIT: 00254

OPERATOR'S WELL #: 208H
ROY RIGGLE OHI

**JACKSON SURVEYING
INC.**



P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	TIMOTHY ALAN RYAN	03-L6-00004-0000	142.00
B	JASON MICHAEL & CRYSTAL LOUISE WILHELM	03-L6-00020-0006	3.71
C	SHIRLEY J. SCHLEICHER	03-L6-00020-0005	1.023
D	FRED C. SCHLEICHER & S. J. SCHLEICHER	03-L6-00020-0001	0.367
E	JACK C. KNUTH JR. & A. M. KNUTH	03-L6-00020-0003	1.07
F	JAMES T. BROUNCE, SR., & PATRICIA BROUNCE	03-L6-00020-0004	2.20
G	BRITTANY E. SMITH & DUSTIN W. HUTSON	03-L9-00019-0000	1.088
H	SCOTT A. WILHELM	03-L6-00020-0007	2.566
I	JOHN A. SCHULTZ	03-L9-00006-0010	53.71
J	MARK S. MIKESINOVICH	03-L9-00006-0009	44.33
K	RODNEY G. PLANTS AND JESSICA J. PLANTS	03-L9-00002-0000	112.08125
L	DELMER K. LOEW AND V. G. LOEW	03-L6-00019-0000	139.00
M	DONNA MUSILLI	03-L6-00018-0003	2.15
N	DELMER K. LOEW, JR. AND STEPHANIE L. LOEW	03-L6-00018-0004	3.416
O	JEFFREY J. EISENHauer AND JOLENE M. EISENHauer	03-L6-00018-0000	29.21
P	LEWIS I. RODGERS	03-L6-00017-0001	1.235
Q	LEWIS I. RODGERS	03-L6-00017-0003	8.454
R	HELEN L. TOMINACK & JOHN I. TOMINACK, JR.	03-L5-00010-0000	215.5
S	GARY KESTNER & TERRY KESTNER	03-L5-00009-0000	95.981
T	RICHARD C. COWAN, SR. & C.A. WILLIAMS	03-L6-00021-0000	2.219
U	PATRICK J. MONTGOMERY & BRENDA LEE MONTGOMERY	03-L6-00011-0001	2.15
V	RICHARD M. KELLY & JEANNETTE L. KELLY	03-L6-00012-0000	1.575
W	ROBERT L. GEAR & TAMMY Y. GEAR	03-L6-00009-0000	8.98
X	JOYCE ANN STRAUSS	03-L6-00008-0000	2.1375
Y	JOYCE ANN STRAUSS	03-L6-00013-0001	0.25
Z	CHAD W. HIXENBAUGH	03-L6-00005-0000	3.00

REVISIONS:	COMPANY:		 	
	OPERATOR'S		ROY RIGGLE OHI	
	WELL #:		206H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-19-2018
	LIBERTY	OHIO	WV	DRAWN BY: N. MANO
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 2

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	TIMOTHY ALAN RYAN	03-L6-0004-0000	143.00
B	JASON MICHAEL & CRYSTAL LOUISE WILHELM	03-L6-0020-0008	3.71
C	SHIRLEY J. SCHLEICHER	03-L6-0020-0002	1.023
D	FRED C. SCHLEICHER & S. J. SCHLEICHER	03-L6-0020-0001	0.367
E	JACK C. KNUTH JR. & A. M. KNUTH	03-L6-0020-0003	1.07
F	JAMES T. BROUNCE, SR., & PATRICIA BROUNCE	03-L6-0020-0004	2.20
G	BRITTANY E. SMITH & DUSTIN W. HUTSON	03-L9-0019-0000	1.088
H	SCOTT A. WILHELM	03-L6-0020-0007	2.268
I	JOHN A. SCHULTZ	03-L9-0008-0010	23.71
J	MARK S. MIKESINOVICH	03-L9-0008-0009	44.33
K	RODNEY G. PLANTS AND JESSICA J. PLANTS	03-L9-0002-0000	112.08125
L	DELMER K. LOEW AND V. G. LOEW	03-L6-0019-0000	139.00
M	DONNA MUSILLI	03-L6-0018-0003	2.12
N	DELMER K. LOEW, JR. AND STEPHANIE L. LOEW	03-L6-0018-0004	3.418
O	JEFFREY J. EISENHAEUER AND JOLENE M. EISENHAEUER	03-L6-0018-0000	29.21
P	LEWIS I. RODGERS	03-L6-0017-0001	1.232
Q	LEWIS I. RODGERS	03-L6-0017-0003	8.424
R	HELEN L. TOMINACK & JOHN I. TOMINACK, JR.	03-L2-0010-0000	21.22
S	GARY KESTNER & TERRY KESTNER	03-L2-0009-0000	92.981
T	RICHARD C. COWAN, SR. & C.A. WILLIAMS	03-L6-0021-0000	2.19
U	PATRICK J. MONTGOMERY & BRENDA LEE MONTGOMERY	03-L6-0011-0001	2.12
V	RICHARD M. KELLY & JEANNETTE L. KELLY	03-L6-0012-0000	1.222
W	ROBERT L. GEAR & TAMMY Y. GEAR	03-L6-0009-0000	8.98
X	JOYCE ANN STRAUSS	03-L6-0008-0000	2.1322
Y	JOYCE ANN STRAUSS	03-L6-0013-0001	0.22
Z	CHAD W. HIXENBAUGH	03-L6-0002-0000	3.00

ADJOINING OWNERS TABLE

		COMPANY:	REVISIONS:
		OPERATOR'S	
ROY RIGGLE OHI		WELL #:	
206H		DISTRICT:	
STATE: WV	COUNTY: OHIO	LIBERTY	
DATE: 09-19-2018	DRAWN BY: N. MANO		
SCALE: N/A	DRAWING NO:		
WELL LOCATION PLAT 2			