

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

API 47 - 069 - 00296 County OHIO District LIBERTY
Quad BETHANY, WV-PA Pad Name ROY RIGGLE-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name ROY & DEBRA R. RIGGLE Well Number ROY RIGGLE OHI 205H
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 4,444,695.694 Easting 540,555.722
Landing Point of Curve Northing 4,445,196.996 Easting 540,844.944
Bottom Hole Northing 4,448,061.086 Easting 539,734.373

Elevation (ft) 1,251.8' 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 02/05/19 Date drilling commenced 04/14/19 Date drilling ceased 05/08/19
Date completion activities began 05/29/19 Date completion activities ceased 06/26/19
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

Reviewed
[Signature] 12-17-19

Reviewed by:
SB 12-17-19

API 47- 069 - 00296 Farm name ROY & DEBRA R. RIGGLE Well number ROY RIGGLE OHI 205H

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	682	NEW	J-55/54.50#		Y; 28 BBLS
Coal	SURFACE						
Intermediate 1	12.25	9.625	2,073	NEW	J-55/36#		Y; 38 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	17,222	NEW	P-110/20#		Y; 50 BBLS
Tubing		2.375	7,067	NEW	L-80/6.50#		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	580	15.60	1.20	696	SURFACE	8
Coal	SURFACE						
Intermediate 1	CLASS A	800	15.60	1.19	952	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,170	15.60	1.21	3,835.70	SURFACE	24
Tubing							

Drillers TD (ft) 17,232' Loggers TD (ft) 17,232'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,000'

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 - 00296 Farm name ROY & DEBRA R. RIGGLE Well number ROY RIGGLE OHI 205H

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	6,429'	TVD 6,964' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 2904 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas 6,923 mcfpd Oil 682 bpd NGL _____ bpd Water 437 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.

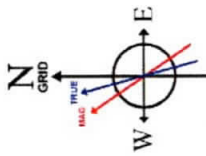
Drilling Contractor SWN DRILLING COMPANY
 Address PO BOX 12359 City SPRING State TX Zip 77391-2359
 Logging Company BAKER HUGHES
 Address 9110 GORGANS MILL RD City THE WOODLANDS State TX Zip 77380
 Cementing Company C&J ENERGY SERVICES INC.
 Address 3990 ROGERSDALE RD City HOUSTON State TX Zip 77042
 Stimulating Company SWN WELL SERVICES
 Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

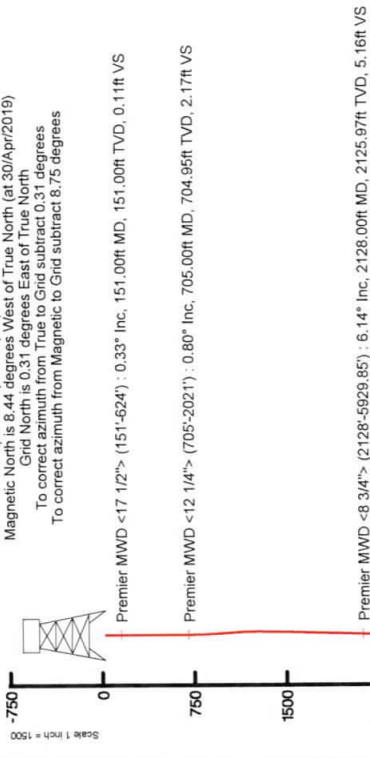
Completed by DENISE GRANTHAM Telephone 832-796-6139
 Signature *Denise Grantham* Title REGULATORY TECHNICIAN Date 9.18.19

Location: Ohio County, WV
 Field: Ohio
 Facility: Roy Riggle OHI Pad

Slot: Slot 205H
 Well: Roy Riggle OHI 205H
 Wellbore: Roy Riggle OHI 205H PWB



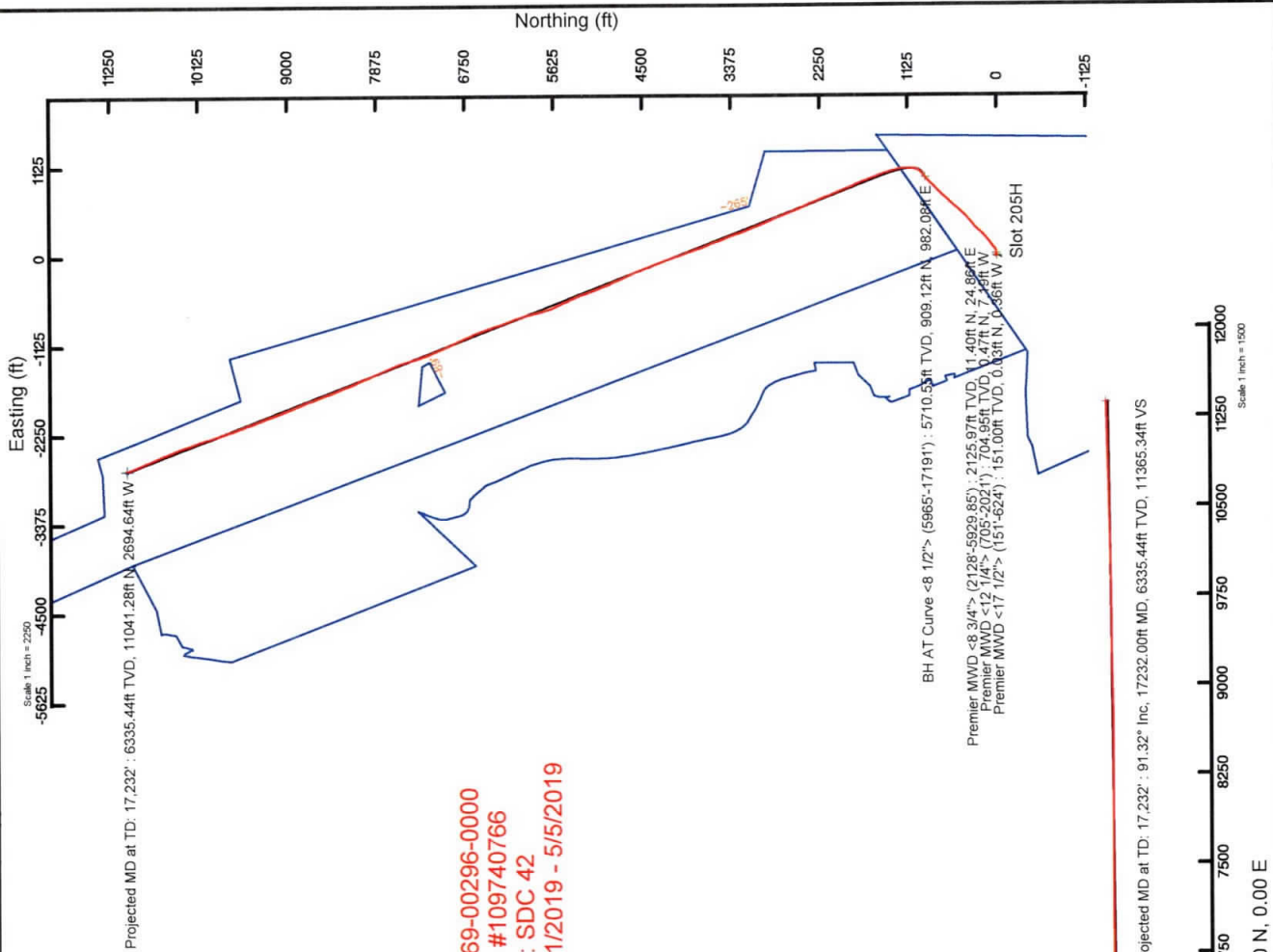
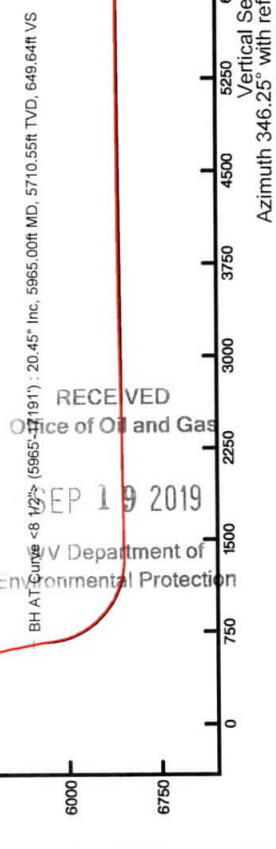
User specified (HDGM) Dip: 67.45° Field: 52650 nT
 Magnetic North is 8.44 degrees West of True North (at 30/Apr/2019)
 Grid North is 0.31 degrees East of True North
 To correct azimuth from True to Grid subtract 0.31 degrees
 To correct azimuth from Magnetic to Grid subtract 8.75 degrees



API: 47-069-00296-0000
 BH Job #109740766
 Rig: SDC 42
 Duration: 5/1/2019 - 5/5/2019

Location Information						
Facility Name	Roy Riggle OHI Pad					
Grid East (US ft)	1773477.520					
Grid North (US ft)	14582274.847					
Local E (ft)	25.85					
Local N (ft)	1773473.359					
Latitude	40°09'05.569"N					
Longitude	80°71'25.123"W					
Slit	30.76					
Slit 205H	25.85					
SDC-42 (KB) to Ground level (At Slit: Slit 205H)	14582305.895					
SDC-42 (KB) to Ground level (At Slit: Slit 205H)	20ft					
Mean Sea Level to Ground level (At Slit: Slit 205H)	-1251.8ft					
Coordinates are in feet referenced to Slit	1277.8ft					
Well Profile Data						
MD (ft)	AS (ft)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/1000ft)	VS (ft)
509.045	21.490	47.110	5877.73	900.40	972.94	3.68
6000.00	21.490	47.110	5743.00	917.96	0.00	655.84
6101.96	21.490	69.500	5838.04	937.36	1022.89	8.00
6176.77	59.625	342.616	6363.54	1285.47	1054.23	9.19
6182.14	90.552	338.886	6448.59	1590.12	947.03	9.20
6185.45	127.232	338.886	6532.00	11039.61	-2701.87	0.00

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 Office of Oil and Gas
 SEP 19 2019
 WV Department of Environmental Protection



Projected MD at TD: 17.232' : 91.32° Inc, 17232.00ft MD, 6335.44ft TVD, 11385.34ft VS
 Scale 1 inch = 1500
 Vertical Section (ft)
 Azimuth 346.25° with reference 0.00 N, 0.00 E

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/29/2019
Job End Date:	6/16/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-00296-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Roy Riggle OHI 205
Latitude:	40.15163100
Longitude:	-80.52383000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,394
Total Base Water Volume (gal):	15,071,418
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			
Sand	SWN Well Services	Proppant					
				Listed Below			

			Ammonium Chloride	12125-02-9	2.00000	0.00204
			Amine Triphosphate	Proprietary	30.00000	0.00199
			Ethylene glycol	107-21-1	30.00000	0.00199
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00153
			Oleic Acid	93-83-4	1.50000	0.00153
			Diethanolamide	64-19-7	37.50000	0.00028
			Acetic Acid	67-56-1	80.00000	0.00017
			Methanol	77-92-9	22.50000	0.00017
			Citric Acid	68951-67-7	9.67400	0.00002
			Oxyalkylated fatty acid	61790-12-3	5.02700	0.00001
			Fatty acids	68527-49-1	4.74600	0.00001
			Modified thiourea polymer	127-08-2	0.02200	0.00000
			Potassium acetate	50-00-0	0.00400	0.00000
			Formaldehyde			

* 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)

ROY RIGGLE OHI 205H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	5/19/2019	17,137	17,045	36
2	6/6/2019	17,014	16,837	42
3	6/7/2019	16,804	16,627	42
4	6/7/2019	16,594	16,417	36
5	6/7/2019	16,384	16,207	36
6	6/7/2019	16,169	15,997	36
7	6/7/2019	15,964	15,787	36
8	6/8/2019	15,754	15,577	36
9	6/8/2019	15,544	15,367	36
10	6/8/2019	15,332	15,157	36
11	6/8/2019	15,124	14,947	36
12	6/8/2019	14,914	14,740	36
13	6/9/2019	14,706	14,527	36
14	6/9/2019	14,494	14,313	36
15	6/9/2019	14,281	14,107	36
16	6/9/2019	14,074	13,897	36
17	6/9/2019	13,864	13,687	36
18	6/9/2019	13,654	13,476	36
19	6/10/2019	13,440	13,267	36
20	6/10/2019	13,234	13,057	36
21	6/10/2019	13,024	12,847	36
22	6/10/2019	12,809	12,637	36
23	6/11/2019	12,604	12,427	36
24	6/11/2019	12,394	12,217	36
25	6/11/2019	12,179	12,007	36
26	6/11/2019	11,974	11,797	36
27	6/11/2019	11,764	11,587	36
28	6/12/2019	11,554	11,377	36
29	6/12/2019	11,344	11,167	36
30	6/12/2019	11,134	10,957	36
31	6/12/2019	10,924	10,747	36
32	6/13/2019	10,714	10,537	36
33	6/13/2019	10,504	10,327	36
34	6/13/2019	10,294	10,117	36
35	6/13/2019	10,084	9,907	36
36	6/13/2019	9,874	9,696	36
37	6/13/2019	9,664	9,487	36
38	6/14/2019	9,454	9,277	36
39	6/14/2019	9,244	9,067	36
40	6/14/2019	9,034	8,857	36
41	6/14/2019	8,824	8,652	36
42	6/14/2019	8,614	8,437	36
43	6/15/2019	8,402	8,227	36
44	6/15/2019	8,194	8,017	36
45	6/15/2019	7,984	7,807	36
46	6/15/2019	7,774	7,597	36
47	6/15/2019	7,564	7,387	36
48	6/15/2019	7,354	7,177	36
49	6/16/2019	7,144	6,967	36

**ROY RIGGLE OHI 205H
ATTACHMENT 2
STIM REPORT**

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/other
1	5/29/2019	77	7,615	7,151	4,900	182,162	13,904	0
2	6/6/2019	83	7,993	5,899	4,703	308,687	7,324	0
3	6/7/2019	89	7,952	5,130	5,198	316,170	7,539	0
4	6/7/2019	88	7,894	5,382	4,704	316,978	7,197	0
5	6/7/2019	90	8,028	5,144	4,903	315,854	7,230	0
6	6/7/2019	84	7,932	5,731	4,863	316,693	7,275	0
7	6/7/2019	85	7,811	5,583	4,610	318,164	7,453	0
8	6/8/2019	82	8,075	5,507	4,420	309,387	6,751	0
9	6/8/2019	86	8,035	6,192	4,854	316,692	7,532	0
10	6/8/2019	87	8,232	5,701	5,209	309,276	7,423	0
11	6/8/2019	88	7,952	5,689	4,668	313,840	7,351	0
12	6/8/2019	84	8,016	5,428	4,441	313,658	7,395	0
13	6/9/2019	85	8,009	5,448	4,410	316,490	7,515	0
14	6/9/2019	90	8,317	5,342	4,892	316,703	7,604	0
15	6/9/2019	89	8,294	6,021	4,382	314,594	7,216	0
16	6/9/2019	87	8,166	5,642	4,716	315,551	7,213	0
17	6/9/2019	83	7,730	5,408	4,417	313,750	7,503	0
18	6/10/2019	84	7,921	5,531	4,860	316,898	7,370	0
19	6/10/2019	93	7,772	5,316	5,015	315,566	6,964	0
20	6/10/2019	92	7,938	6,112	4,893	314,922	7,043	0
21	6/10/2019	89	8,054	5,274	4,689	314,906	7,067	0
22	6/11/2019	78	8,008	5,617	4,676	311,200	7,394	0
23	6/11/2019	83	7,914	5,514	4,686	310,844	7,198	0
24	6/11/2019	59	8,137	5,538	4,703	315,920	8,403	0
25	6/11/2019	82	8,135	5,349	4,478	315,106	6,805	0
26	6/11/2019	84	7,923	5,446	4,518	308,450	7,614	0
27	6/12/2019	84	7,443	5,197	4,648	305,761	7,462	0
28	6/12/2019	81	7,101	5,013	4,453	314,820	6,504	0
29	6/12/2019	82	7,190	5,236	4,351	317,068	7,115	0
30	6/12/2019	86	8,108	5,628	4,745	314,996	7,596	0
31	6/12/2019	80	8,192	5,340	4,415	309,868	7,017	0
32	6/13/2019	77	8,269	5,763	4,312	313,224	7,146	0
33	6/13/2019	82	7,622	5,671	4,222	320,399	6,753	0
34	6/13/2019	81	7,146	5,571	4,340	316,714	7,090	0
35	6/13/2019	83	7,873	5,128	4,486	316,714	7,033	0
36	6/13/2019	67	7,597	5,675	4,474	302,809	7,098	0
37	6/14/2019	75	8,134	5,826	4,400	304,120	7,038	0
38	6/14/2019	77	7,602	5,686	4,407	309,960	6,712	0
39	6/14/2019	81	7,248	5,313	4,322	305,008	7,000	0
40	6/14/2019	80	7,095	5,321	4,312	312,386	6,989	0
41	6/14/2019	83	6,909	5,388	4,620	313,661	7,109	0
42	6/14/2019	87	7,260	6,275	4,421	303,654	6,997	0
43	6/15/2019	85	7,289	6,152	4,660	311,258	7,157	0
44	6/15/2019	84	7,178	6,387	4,423	315,266	6,477	0
45	6/15/2019	89	7,227	5,927	4,450	312,160	6,475	0
46	6/15/2019	85	7,100	6,532	4,318	308,482	6,986	0
47	6/15/2019	85	7,495	6,280	4,527	303,542	6,922	0
48	6/15/2019	81	7,161	6,011	4,435	303,300	7,705	0
49	6/16/2019	87	7,362	6,345	4,469	303,600	7,715	0



Well Name: Roy Riggle OHI 205H 47069002960000

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)	2256.00	2255.00	2379.00	2378.00	
Rhinstreet (shale)	6081.00	5819.00	6406.00	6112.00	
Cashaqua (shale)	6406.00	6112.00	6468.00	6162.00	
Middlesex (shale)	6468.00	6162.00	6574.00	6242.00	
Burket (shale)	6574.00	6242.00	6602.00	6261.00	
Tully (ls)	6602.00	6261.00	6659.00	6298.00	
Mahantango (shale)	6659.00	6298.00	6964.00	6429.00	
Marcellus (shale)	6964.00	6429.00	NA	NA	GAS

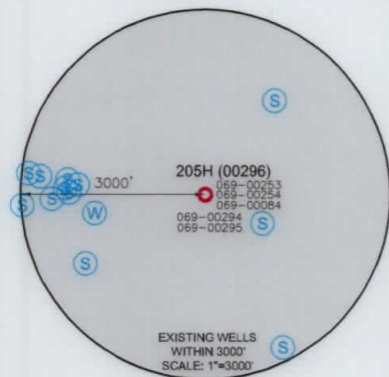
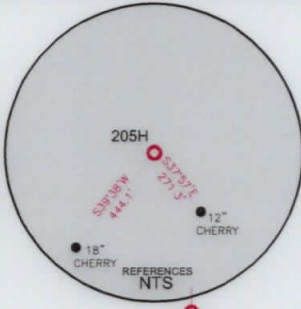
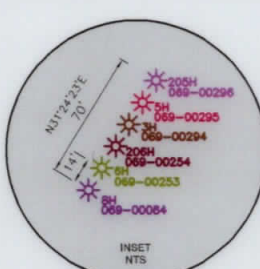
**JACKSON SURVEYING
INC.**
2413 EAST PIKE ST, # 112
Clarksburg, WV 26301
304-623-5851

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,695.831 EASTING: 540,555.475
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,165.944 EASTING: 540,849.790
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,448,059.260 EASTING: 539,732.544

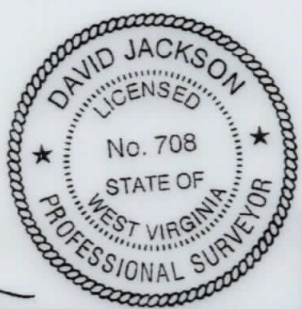
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 43°53'05" E	1887.78'	SHL TO LANDMARK	FENCE CORNER
L2	S 78°30'46" W	1064.23'	SHL TO LANDMARK	CORNER POST

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 29°58'57" E	1898.79'	2196.16'	SHL TO LP



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,695.694 EASTING: 540,555.722
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,196.996 EASTING: 540,844.944
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,448,061.086 EASTING: 539,734.373



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

NOTES ON SURVEY

- 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.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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*

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>OPERATOR'S WELL #: ROY RIGGLE OHI 205H</p> <p>API WELL #: 47 STATE 069 COUNTY 00296 PERMIT</p>										
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: CASTLEMAN RUN OF BUFFALO CREEK (HUC-10) ELEVATION: 1,251.8'</p> <p>DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV-PA</p> <p>SURFACE OWNER: ROY & DEBRA R. RIGGLE ACREAGE: ±171.18</p> <p>OIL & GAS ROYALTY OWNER: ROY & DEBRA R. RIGGLE ACREAGE: ±171.18</p> <p>DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) ASDRILLED</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,452' TVD 17,232' TMD</p>	<p>DESIGNATED AGENT: BRITTANY WOODY</p> <p>ADDRESS: 1300 FORT PIERPONT RD. SUITE 200</p> <p>CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>										
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ★ EXISTING / PRODUCING WELLHEAD LPL★ LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊕ EXISTING SPRING — SURVEYED BOUNDARY — DRILLING UNIT == LEASE BOUNDARY — ASDRILLED PATH — PROPOSED PATH 	<p>REVISIONS:</p> <table border="1"> <tr> <td> </td> <td>DATE: 09-18-2019</td> </tr> <tr> <td> </td> <td>DRAWN BY: N. MANO</td> </tr> <tr> <td> </td> <td>SCALE: 1" = 2000'</td> </tr> <tr> <td> </td> <td>DRAWING NO:</td> </tr> <tr> <td> </td> <td>WELL LOCATION PLAT</td> </tr> </table>		DATE: 09-18-2019		DRAWN BY: N. MANO		SCALE: 1" = 2000'		DRAWING NO:		WELL LOCATION PLAT	
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JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST, # 112
 Clarksburg, WV 26301
 304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROY RIGGLE & DEBRA R. RIGGLE (S/R)	03-L6-14
TRACT	SURFACE OWNER	TAX PARCEL
2	TIMOTHY ALAN RYAN (S)	03-L6-4
3	EDWARD JOHN COVEY & ROSEMARY ANN COVEY (S)	03-B54-8
4	RANCH SPORTSMANS CLUB, INC. (S)	03-B49-11
5	ROBERT E. JONES LIVING TRUST DATED 11/12/10 (S)	03-B49-12
6	WV DEPT. OF NATURAL RESOURCES (S)	03-B49-7
7	WV BUREAU OF COMMERCE DIV. OF NATURAL RESOURCES (S)	03-B49-1

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	WILLIAM RODGER, L/E	03-L6-16
B	GREGORY N. MORMANIS & SHARON LEE MORMANIS	03-L6-13
C	JOYCE ANN STRAUSS	03-L6-08
D	FEDERAL NATIONAL MORTGAGE ASSOCIATION	03-L6-05
E	EDGAR PARRISH	03-L6-2.2
F	DOROTHY TUSTIN (LIFE ESTATE)	03-L3-3.2
G	DANIEL P. TUSTIN, SR. & VICKI L. TRUSTIN	03-L3-03
H	DANIEL P. TUSTIN, SR. & VICKI L. TRUSTIN	03-L3-3.1
I	DANIEL P. TUSTIN, SR. & VICKI L. TRUSTIN	03-L3-2.3
J	CHRISTOPHER J. COVEY & LELA G. COVEY	03-L3-04
K	JOHN S. FREEMAN & N. FREEMAN	03-L3-2.2
L	RICHARD P. FORSHEY	03-B54-13
M	RICHARD P. FORSHEY	03-B54-12
N	ROSEMARY ANN COVEY	03-B54-11
O	ROSEMARY ANN COVEY	03-B54-10
P	ROSEMARY ANN COVEY	03-B54-09
Q	JACQUELINE D. CONNARD	03-B54-04
R	JACQUELINE D. CONNARD	03-B54-05
S	VEMURI HOME & GARDEN, LLC	03-B54-06
T	VEMURI HOME & GARDEN, LLC	03-B54-07
U	EVERETT L. CARMICHAEL	03-B54-03
V	JAMES UNDERWOOD	03-B54-02
W	STATE ROAD OF WEST VIRGINIA	03-B54-01
X	STATE ROAD OF WEST VIRGINIA	03-B49-13
Y	PERRY JEFFERSON JONES & BRANDY SUE JONES	03-B49-08
Z	PERRY J. JONES, JR.	03-B49-8.1
AA	PERRY JEFFERSON JONES	03-B49-09
BB	PERRY JEFFERSON JONES	03-B49-09
CC	DANIEL E. WALDEN & MARY VIRGINIA WALDEN	03-B48-37
DD	DANIEL E. WALDEN	03-B49-06
EE	JOHN WALTER MCNICHOLS III	03-B48-36
FF	ANDREW P. HOGAN	03-B48-34
GG	CLIFFORD E. COUNSELMAN	03-B49-02
HH	MARK S. GRACY & CAROL B. GRACY	230-023-00-00-0010-06
II	RITA V. QTIP JONES, TR.	230-016-00-00-0001-00
JJ	ROY RIGGLE & DEBRA R. RIGGLE	230-016-00-00-0003-00
KK	KEENER PRIMARY RES. PROTECTOR TRUST	230-015-00-00-0005-00
LL	MICHAEL WILHELM & JULIA E. WILHELM	03-L6-20
MM	JASON MICHAEL WILHELM & CRYSTAL LOUISE WILHELM	03-L6-20.6

REVISIONS:	COMPANY:			
	OPERATOR'S	ROY RIGGLE OHI	DATE:	09-18-2019
	WELL #:	205H	API #	47-069-00296
	DISTRICT:	LIBERTY	COUNTY:	OHIO
			STATE:	WV
			DRAWN BY:	N. MANO
			SCALE:	N/A
			DRAWING NO:	
			WELL LOCATION	PLAT 2