

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

API 47 - 069 - 00201 County OHIO District TRIADELPHIA
Quad VALLEY GROVE WV Pad Name G W RENTALS LLC OHI 605 Field/Pool Name PANHANDLE FIELD
Farm name G W RENTALS LLC OHI 605 Well Number G W RENTALS LLC OHI 605
Operator (as registered with the OOG) SWN Production Company LLC
Address P O Box 12359 City Spring State TX Zip 77391

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,436,102.860 Easting 537,046.234
Landing Point of Curve Northing 4,436,442.365 Easting 537,643.540
Bottom Hole Northing 4,438,504.890 Easting 536,866.094

Elevation (ft) 1,246.6' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

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

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Date permit issued 9/22/2015 Date drilling commenced 11/10/15 Date drilling ceased 12/27/15
Date completion activities began 10/08/16 Date completion activities ceased 11/12/16
Verbal plugging (Y/N) n Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 510' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1328' Void(s) encountered (Y/N) depths 606 - 629'
Coal depth(s) ft 608' Cavern(s) encountered (Y/N) depths N

Is coal being mined in area (Y/N) N

APPROVED

NAME: Eric Blew

DATE: 3/29/17

Reviewed by:

AB 3/29/17

05/26/2017

API 47-069 - 00201 Farm name G W RENTALS LLC OHI 605 Well number G W RENTALS LLC OHI 605

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	28"	20"	122	NEW	J-55/94#		Y
Surface	17.5"	13.375"	671	NEW	J-55/54.5#	584' / 604'	Y; 1 BBL RETURNED
Coal	SEE SURFACE						
Intermediate 1	12.25"	9.625"	2125	NEW	J-55/40#		Y; 30 BBLS RETURNED
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	14631	NEW	HCP-110/20#		Y
Tubing		2.375"	7291	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	150	17			SURFACE	24
Surface	CLASS A	1004	15.6	1.20	1204.8	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	793	15.6	1.18	935.74	SURFACE	8
Intermediate 2							
Intermediate 3							
Production		2630	15.6	1.19	3129.7	SURFACE	24
Tubing							

Drillers TD (ft) 14,634' Loggers TD (ft) 14,634'
 Deepest formation penetrated UPPER MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7393'

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 _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 069 - 00201 Farm name G W RENTALS LLC OHI 605 Well number G W RENTALS LLC OHI 605

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>UPPER MARCELLUS</u>	<u>6517.82</u>	<u>TVD</u>	<u>7235.46</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1550 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 3259.037 mcfpd Oil 290.75 bpd NGL _____ bpd Water 412.28 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	
	<u>0</u>		<u>0</u>		
	<u>SEE</u>	<u>EXHIBIT</u>	<u>3</u>		

Please insert additional pages as applicable.

Drilling Contractor STONE WELL SERVICES
Address 5714 FM 1593 City LOLITA State TX Zip 77971

Logging Company WEATHERFORD
Address 2000 ST. JAMES PLACE City HOUSTON State TX Zip 77056

Cementing Company SCHLUMBERGER
Address 110 SCHLUMBERT DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company HALLIBURTON ENERGY SERVICES
Address 14851 MILNER ROAD, GATE 5A City HOUSTON State TX Zip 77032

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139
Signature *Denise Grantham* Title REGULATORY TECHNICIAN Date 2.1.2017

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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G W RENTALS LLC OHI 605H
Frac Stage Summary

STAGE NUM	Stim Date	Amount of Proppant (lbs)	Max Breakdown Pressure (PSI)	Amount of water bbls	Ave Treatment Pressure (PSI)	ISIP (PSI)	Ave Pump Rate (BPM)	Amount of nitrogen/other
1	9/21/2016	501,020	8,026	7,808	7,609	4,187	92	
2	9/21/2016	500,520	8,287	9,941	7,723	4,300	91	
3	9/21/2016	502,500	8,534	8,224	7,884	5,074	94	
4	9/21/2016	500,360	8,193	7,716	7,707	5,002	95	
5	9/21/2016	501,560	8,462	7,972	7,720	4,952	90	
6	9/22/2016	501,980	8,687	8,229	7,857	4,933	96	
7	9/22/2016	501,600	8,330	8,308	7,849	4,874	95	
8	9/22/2016	505,500	8,628	8,065	7,910	5,037	95	
9	9/22/2016	503,460	8,684	7,802	7,876	4,995	93	
10	9/23/2016	502,680	8,236	7,622	7,974	5,036	94	
11	9/23/2016	500,600	8,976	7,906	7,864	5,106	95	
12	9/23/2016	507,940	8,903	8,180	7,749	5,033	98	
13	9/23/2016	499,700	8,320	7,813	7,959	4,927	100	
14	9/23/2016	504,540	8,862	7,727	7,856	5,007	99	
15	9/24/2016	503,500	8,447	7,723	7,756	5,051	95	
16	9/24/2016	504,860	8,008	7,854	7,727	4,868	99	
17	9/24/2016	500,120	8,479	7,398	7,899	4,775	100	
18	9/24/2016	500,360	8,376	7,650	7,598	4,772	99	
19	9/25/2016	501,920	8,398	7,489	7,622	4,718	100	
20	9/25/2016	496,920	8,785	7,522	7,679	4,844	102	
21	9/25/2016	498,860	8,504	7,234	7,898	4,773	102	
22	9/25/2016	499,680	8,499	7,318	7,735	4,828	100	
23	9/25/2016	499,340	8,196	7,364	7,646	4,874	100	
24	9/25/2016	503,060	8,336	7,382	7,646	4,712	100	
25	9/26/2016	502,340	7,920	7,260	7,534	4,683	100	
26	9/26/2016	503,460	8,479	8,216	7,458	4,608	100	
27	9/26/2016	498,320	8,419	7,513	7,573	4,676	101	
28	9/26/2016	499,380	8,198	7,160	7,668	4,495	99	
29	9/26/2016	499,760	8,388	7,264	7,637	4,567	98	
30	9/27/2016	499,980	8,428	7,152	7,767	4,658	100	
31	9/27/2016	501,380	8,516	8,372	7,480	4,753	101	
32	9/27/2016	501,740	8,687	7,468	7,513	4,649	101	
33	9/27/2016	500,400	8,367	7,176	7,538	4,799	100	
34	9/27/2016	500,160	8,342	7,082	7,526	4,714	100	
35	9/28/2016	502,380	7,947	7,505	7,510	4,739	101	
36	9/28/2016	506,020	8,507	9,095	7,455	4,740	100	
37	9/28/2016	500,060	7,773	7,781	7,367	5,046	98	
38	9/28/2016	500,060	8,347	7,736	7,575	5,021	99	
39	9/29/2016	500,080	8,360	8,382	7,288	4,779	100	
40	9/29/2016	500,800	7,805	7,534	7,413	4,909	100	
41	9/29/2016	499,100	8,721	8,027	7,440	4,651	100	
42	9/30/2016	500,320	8,195	8,980	7,447	4,930	99	
43	9/30/2016	500,040	8,505	8,974	7,544	5,043	99	
44	10/1/2016	504,640	8,507	7,844	7,467	4,906	100	
45	10/1/2016	500,020	8,357	7,745	7,709	4,988	100	
46	10/1/2016	500,060	8,343	7,591	7,487	4,855	101	
47	10/2/2016	499,820	8,372	7,661	7,420	4,775	99	
48	10/2/2016	503,300	8,125	7,507	7,552	4,937	100	
49	10/2/2016	501,320	8,010	7,217	7,650	5,055	100	
50	10/2/2016	501,180	8,036	7,504	7,386	4,949	100	
51	10/2/2016	502,060	8,470	7,842	7,532	5,193	99	
52	10/3/2016	502,140	7,926	7,443	7,297	5,270	100	
53	10/3/2016	502,180	7,816	7,204	7,361	5,232	97	
54	10/3/2016	454,880	10,153	7,251	7,565	5,416	100	
55	10/3/2016	499,320	7,791	7,712	7,277	4,802	100	
56	10/3/2016	501,840	7,376	7,420	6,969	4,932	100	
57	10/4/2016	503,660	8,143	7,559	7,230	5,125	100	
58	10/5/2016	499,320	8,004	7,347	7,326	4,983	100	
59	10/5/2016	501,360	8,634	7,045	7,284	4,915	100	
60	10/5/2016	500,560	8,133	7,134	7,666	4,734	99	
61	10/5/2016	500,020	8,145	7,414	7,103	4,840	100	
62	10/5/2016	499,740	8,244	7,357	7,230	4,870	99	
63	10/6/2016	498,240	8,406	7,291	7,175	5,058	100	
64	10/6/2016	500,040	8,730	7,273	7,429	5,088	98	
65	10/6/2016	499,920	8,682	7,120	7,624	5,283	96	
66	10/6/2016	500,040	7,659	7,421	6,983	4,679	99	
67	10/7/2016	499,600	7,627	7,120	7,254	4,988	98	
68	10/7/2016	499,520	7,864	6,950	7,263	5,023	98	
69	10/7/2016	500,140	8,665	7,239	7,294	4,964	99	
70	10/7/2016	500,080	7,836	7,170	7,046	5,181	95	
71	10/8/2016	478,050	8,136	7,005	7,034	4,987	95	
72	10/8/2016	491,630	7,689	7,004	7,062	5,178	99	

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G W RENTALS LLC OHI 605H
Perf Stage Summary

STAGE NUM	# SHOTS PER STG	Perf Top MD	Perf Bottom MD	Perf Date
1	42	14,385	8/6/1939	9/21/2016
2	42	14,284	4/27/1939	9/21/2016
3	42	14,183	1/16/1939	9/21/2016
4	42	14,082	10/7/1938	9/21/2016
5	42	13,981	6/28/1938	9/21/2016
6	42	13,880	3/19/1938	9/22/2016
7	42	13,779	12/8/1937	9/22/2016
8	42	13,678	8/29/1937	9/22/2016
9	42	13,577	5/20/1937	9/22/2016
10	42	13,476	2/8/1937	9/23/2016
11	42	13,375	10/30/1936	9/23/2016
12	42	13,274	7/21/1936	9/23/2016
13	42	13,173	4/11/1936	9/23/2016
14	42	13,072	1/1/1936	9/23/2016
15	42	12,971	9/22/1935	9/24/2016
16	42	12,870	6/13/1935	9/24/2016
17	42	12,769	3/4/1935	9/24/2016
18	42	12,668	11/17/1934	9/24/2016
19	42	12,567	8/14/1934	9/25/2016
20	42	12,466	5/5/1934	9/25/2016
21	42	12,365	1/24/1934	9/25/2016
22	42	12,264	10/15/1933	9/25/2016
23	42	12,163	7/6/1933	9/25/2016
24	42	12,062	3/27/1933	9/25/2016
25	42	11,961	12/16/1932	9/26/2016
26	42	11,860	9/6/1932	9/26/2016
27	42	11,759	5/28/1932	9/26/2016
28	42	11,658	2/17/1932	9/26/2016
29	42	11,557	11/8/1931	9/26/2016
30	42	11,456	7/30/1931	9/27/2016
31	42	11,355	4/20/1931	9/27/2016
32	42	11,254	1/9/1931	9/27/2016
33	42	11,153	9/30/1930	9/27/2016
34	42	11,052	6/21/1930	9/27/2016
35	42	10,951	3/12/1930	9/28/2016
36	42	10,850	12/1/1929	9/28/2016
37	42	10,749	8/22/1929	9/28/2016
38	42	10,648	5/10/1929	9/28/2016
39	42	10,547	2/1/1929	9/29/2016
40	42	10,446	10/23/1928	9/29/2016
41	42	10,345	7/14/1928	9/29/2016
42	42	10,244	4/4/1928	9/30/2016
43	42	10,143	12/20/1927	9/30/2016
44	42	10,042	9/15/1927	10/1/2016
45	42	9,941	6/6/1927	10/1/2016
46	42	9,840	2/19/1927	10/1/2016
47	42	9,739	11/16/1926	10/2/2016
48	42	9,640	8/7/1926	10/2/2016
49	42	9,537	4/28/1926	10/2/2016
50	42	9,436	1/11/1926	10/2/2016
51	42	9,335	10/8/1925	10/2/2016
52	42	9,234	6/29/1925	10/3/2016
53	42	9,133	9,211	10/3/2016
54	42	9,032	9,110	10/3/2016
55	42	8,931	9,009	10/3/2016
56	42	8,830	8,908	10/3/2016
57	42	8,729	8,807	10/4/2016
58	42	8,628	8,706	10/5/2016
59	42	8,527	8,598	10/5/2016
60	42	8,426	8,497	10/5/2016
61	42	8,325	8,403	10/5/2016
62	42	8,224	8,296	10/5/2016
63	42	8,124	8,196	10/6/2016
64	42	8,022	8,093	10/6/2016
65	42	7,921	7,992	10/6/2016
66	42	7,820	7,892	10/6/2016
67	42	7,719	7,791	10/7/2016
68	42	7,614	7,690	10/7/2016
69	42	7,517	7,589	10/7/2016
70	42	7,420	7,488	10/7/2016
71	42	7,315	7,387	10/8/2016
72	42	7,214	7,292	10/8/2016

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Well Name: G W RENTALS LLC OHI 605H

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	N. A.	N. A.	510.00	510.00	?
Top of Salt Water	1328.00	1328.00	N. A.	N. A.	?
Pittsburgh Coal	608.00	608.00	619.00	619.00	?
Big Injun (ss)	2031.00	2031.00	1857.00	1857.00	?
Berea (siltstone)	2401.00	2381.00	2447.00	2425.00	?
Rhinestreet (shale)	6311.00	5901.00	6629.37	6177.10	?
Cashaqua (shale)	6629.37	6177.10	6721.19	6250.00	?
Middlesex (shale)	6721.19	6250.00	6835.01	6333.33	?
Burket (shale)	6835.01	6333.33	6869.48	6356.24	?
Tully (ls)	6869.48	6356.24	6919.08	6387.51	?
Mahantango (shale)	6919.08	6387.51	7235.46	6517.82	?
Marcellus (shale)	7235.46	6517.82	N. A.	N. A.	?

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/9/2016
Job End Date:	10/21/2016
State:	West Virginia
County:	Ohio
API Number:	47-069-00201-08-00
Operator Name:	Southwestern Energy
Well Name and Number:	GW Rentals OHI 605H
Latitude:	40.07438000
Longitude:	-80.56551000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,537
Total Base Water Volume (gal):	16,198,958
Total Base Non Water Volume:	0



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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
Lease Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	82.98594	Density = 8.500
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	1.24288	

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FDP-S1176-15	Halliburton	Friction Reducer								
					Listed Below					
HAI-150E	Halliburton	Corrosion Inhibitor								
					Listed Below					
SAND-COMMON WHITE - 100 MESH, 3307 LB BAG	Halliburton	Proppant								
					Listed Below					
HYDROCHLORIC ACID	Halliburton	Solvent								
					Listed Below					
SAND-PREMIUM WHITE-40/70, BULK	Halliburton	Proppant								
					Listed Below					
					Listed Below					
Bactron K-139	Nalco	Biocide								
					Listed Below					
EC6486A	Nalco	Scale Inhibitor								
					Listed Below					
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Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.										
					Crystalline silica, quartz	14808-60-7	100.00000	15.60479		
					Hydrochloric acid	7647-01-0	15.00000	0.74573		
					Ethylene Glycol	107-21-1	30.00000	0.02221		

**State of West Virginia
Department of Environmental Protection
Office of Oil and Gas**

Well Operator's Report of
Initial Gas-Oil Ratio

Well Operator SWN PRODUCTION COMPANY LLC
Address PO BOX 12359
SPRING, TX 77391-2359

Designated Agent _____
Address _____

Geological Target Formation: MARCELLUS Depth 7235.46 feet
Perforation Interval 7324' - 14559' feet

Guidelines for testing:

1. A minimum of gas vented or flared.
2. A 24 hour pre-flow into pipelines or tanks.
3. Uniform producing rate during the 24 hour test per test period.
4. Measurement standards as for Form WR-39, "Report of Annual Production" (see 35CSR4-15)
5. Separate Form WR-36 for each producing formation in a multiple completion.

TEST DATA

Start of Test Date	Time	End of Test Date	Time	Duration of Test
Tubing Pressure	Casing Pressure	Separator Pressure	Separator Temperature	
Oil Production During Test	Gas Production During Test	Water Production During Test		
BBLs	MCF	BBls	-Salinity	
Oil Gravity	Producing Method (flowing, pumping, gas lift etc.)			
API				

GAS PRODUCTION

Measurement Method Flange Tap <input type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>		Positive Choke <input type="checkbox"/>
		Positive flow prover <input type="checkbox"/>
Orifice diameter	Pipe Diameter (inside)	Nominal Choke Size inches 19"
Differential Pressure range	Max. Static pressure range	Prover and Orifice diameter - inches
Differential		Static
Gas Gravity (Air = 1.0)	Flowing Temperature	Gas Temperature
Measured	Estimated	
24 Hour Coefficient	24 Hour coefficient pressure PSIA	

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TEST RESULTS

Daily Oil 290.75 Bbls	Daily Water 412.28 Bbls	Daily Gas 3259.037 mcf	Gas-Oil Ratio
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Denise Grantham
Well Operator

BY DENISE GRANTHAM

ITS: DESIGNATED REPRESENTATIVE

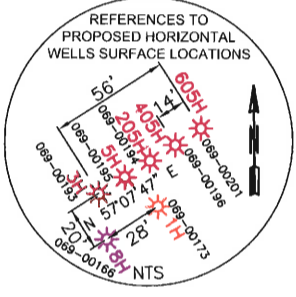
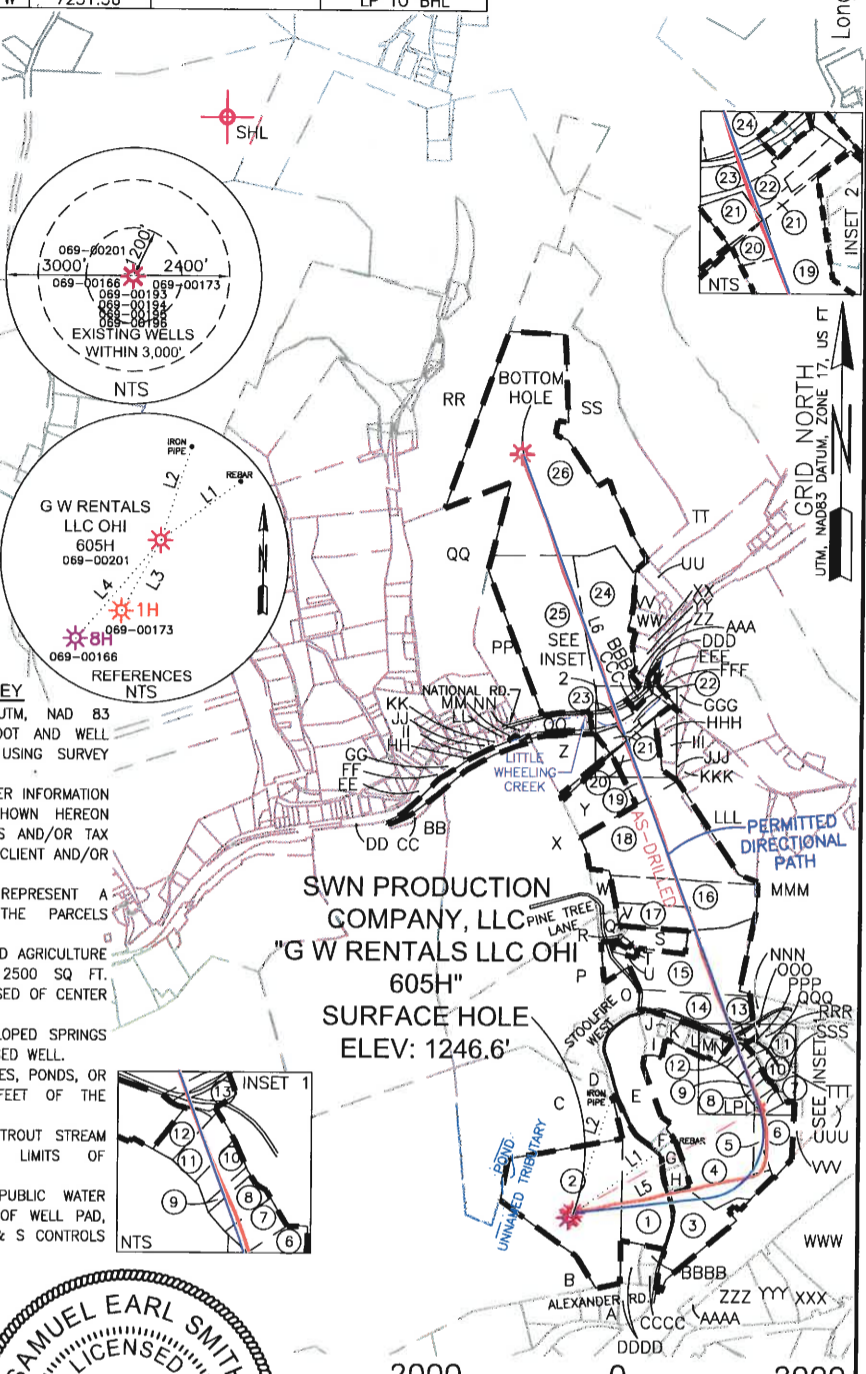


320 O'Bryan Lane • Van Buren, AR 72956
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 53°31'56" E	1282.52'	SHL TO LANDMARK	5/8" REBAR SET
L2	N 17°51'02" E	1268.47'	SHL TO LANDMARK	1" IRON PIPE
L3	S 29°14'09" W	40.95'	SHL TO REF. PNT.	G W RENTALS LLC OHI 1H WELL HEAD 069-00173
L4	S 39°49'29" W	68.00'	SHL TO REF. PNT.	G W RENTALS LLC OHI 8H WELL HEAD 069-00166
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 60°23'11" E	2254.10'		SHL TO LP
L6	N 20°39'12" W	7231.56'		LP TO BHL

Latitude: 40°05'00"
Longitude: 80°32'30"

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	GW RENTALS, LLC (S) LEE J. GLESSNER & GARY W. GLESSNER (R)	6-T9-5	13.96
2	GW RENTALS, LLC (S) LEE J. GLESSNER & GARY W. GLESSNER (R) JAMES Z. CHAMBERS (R) JEFFREY S. CHAMBERS (R) JUDY LYNN CHAMBERS (R)	6-T9-5.1	27.66
3	SAMUEL LEE HARRIS SR., TRUSTEE OF THE ROBERT EDWARD LEE HARRIS & SAMUEL LEE HARRIS JR., IRREVOCABLE TRUST (S/R)	6-T9-57	9.31
4	JOSEPH M. TEAGARDEN & MARLA M. TEAGARDEN (S) VICTOR A. WOOD & JENNA P. WOOD (R)	6-T4-4.30	33.32
5	H. ELAINE SCHNEIDER & THOMAS E. SCHNEIDER (S/R)	6-T4-4.28	1.71
6	H. ELAINE SCHNEIDER & THOMAS E. SCHNEIDER (S/R)	6-T4-4.26	3.95
7	DAVID LEE BARNETT & NANCY BARNETT (S/R)	6-T4-4.23	0.88
8	CATHY A. CALISSIE (S/R)	6-T4-4.14	0.74
9	CATHY A. CALISSIE (S/R)	6-T4-4.15	0.14
10	ALBERT J. MESTROVIC JR & SHERRIE E. MESTROVIC (S/R)	6-T4-4.7	1.19
11	GARY W. VOORHEIS & SUNDARA VOORHEIS (S/R)	6-T4-4.6	1.03
12	GARY W. VOORHEIS & SUNDARA VOORHEIS (S/R)	6-T4-4.29	0.87
13	RCC PROPERTIES, LLC (S/R)	6-T4-4.11	0.87
14	GW RENTALS, LLC (S/R)	6-T4-4	10.68
15	THOMAS DOEPKEN (S/R)	3-L14-14	25.00
16	WILLIAM E. WARD & LOLLYANNE G. WARD (S/R)	3-L14-14.6	9.74
17	LARRY R. LEWIS & MISON LEWIS (S/R)	3-L14-14.13	4.95
18	WILLIAM E. WARD & LOLLYANNE G. WARD (S/R)	3-L14-14.4	18.34
19	SCOTT W. KNOLLINGER & BARBARA A. KNOLLINGER (S/R)	3-L14-5	5.74
20	WILDA X. DUNN (S/R)	3-L14-5.1	0.69
21	STEVEN PASSA (S/R)	3-L14-6	0.82
22	VALLEY GROVE VOLUNTEER FIRE DEPT., INC. (S/R)	8-VG9-93	14.80
23	THOMAS J. HUNTER & CAROL R. HUNTER (S/R)	8-VG7-17	0.91
24	JACK LAWRENCE NELSON & CHARLOTTE ANN NELSON (S/R)	8-VG7-24	14.78
25	LYNN REUSSER & YVONNE REUSSER (S/R)	8-VG7-24.1	25.87
26	LYNN REUSSER & YVONNE REUSSER (S/R)	3-L11-20.1	66.28



- 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 OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ FT. WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS 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.

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,102.860 EASTING: 537,046.234
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,442.365 EASTING: 537,643.540
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,438,504.890 EASTING: 536,866.094

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. 2315 *Samuel Earl Smith* 04-19-16

COMPANY: **SWN** Production Company, LLC

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

G W RENTALS LLC OHI
OPERATOR'S WELL #: 605H
API WELL #: 47 69 00201
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK ELEVATION: 1,246.6'

DISTRICT: TRIADDELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE WV.

SURFACE OWNER: GW RENTALS, LLC. ACREAGE: ±27.66

OIL & GAS ROYALTY OWNER: LEE J GLESSNER & GARY W GLESSNER, JAMES Z CHAMBERS, JEFFREY S CHAMBERS, & JUDY LYNN CHAMBERS ACREAGE: ±27.66

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 DEPTH: 6,537' IVD 14,834' TMD

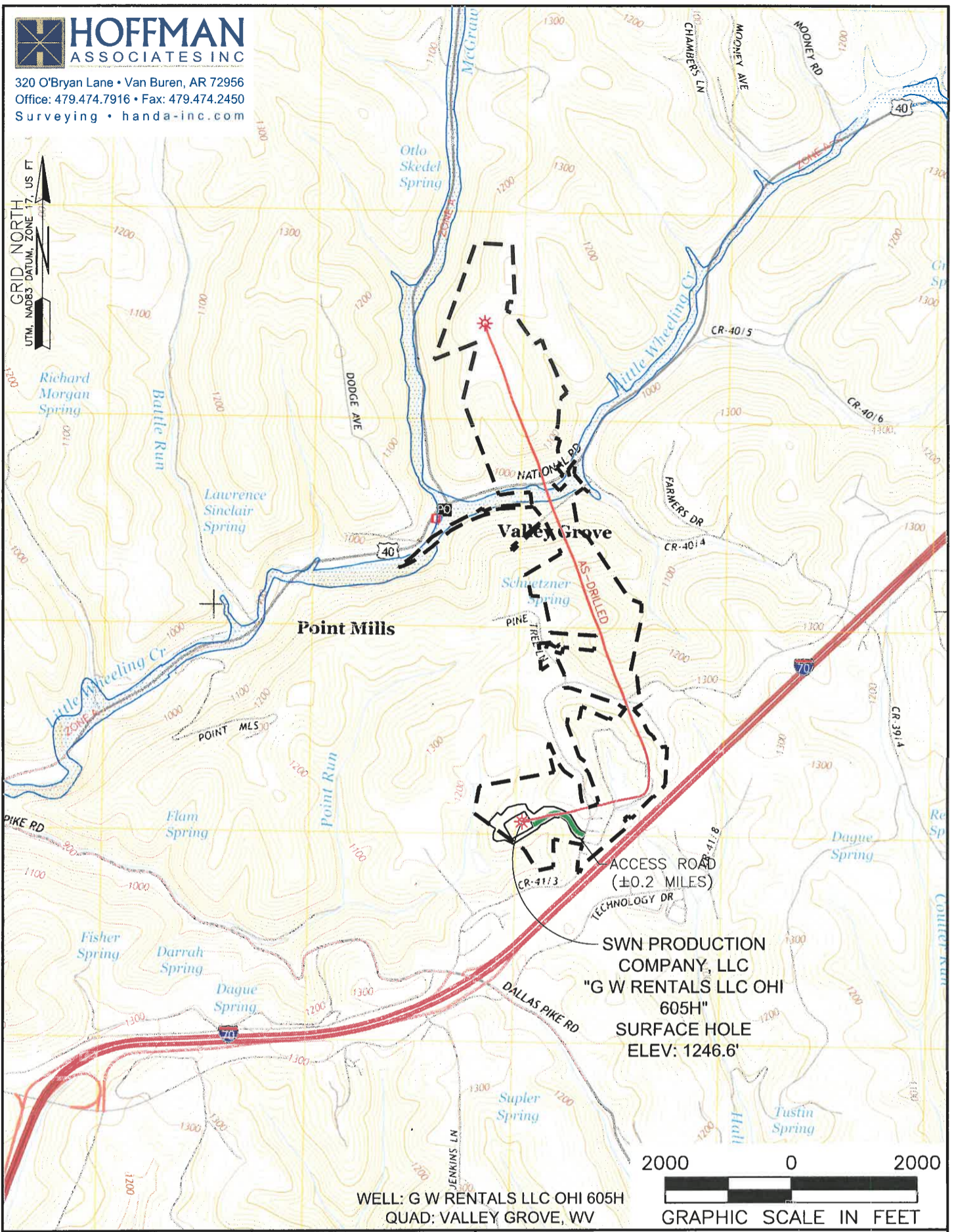
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:

○ PROPOSED SURFACE HOLE / BOTTOM HOLE	--- LEASE BOUNDARY
⊙ EXISTING / PRODUCING WELLHEAD	--- AS-DRILLED PATH
⊗ ABANDONED WELL	--- PERMITTED
⊗ PLUGGED & ABANDONED WELL	--- DIRECTIONAL PATH
△ CUT CONDUCTOR	

REVISIONS:	DATE: 03-30-2016
△ REVISED PARCEL NO. & LEASE BDRY 04-12-2016	
	DRAWN BY: K. IRVIN
	SCALE: 1" = 2000'
	DRAWING NO: 59423
	WELL LOCATION PLAT

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



WELL: G W RENTALS LLC OHI 605H
QUAD: VALLEY GROVE, WV

2000 0 2000
GRAPHIC SCALE IN FEET

NAME AND DISTANCE TO THE NEAREST STREAM: AN UNNAMED TRIBUTARY OF POINT RUN IS LOCATED ±0.15 MILES NORTHWEST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.	COMPANY: SWN Production Company, LLC	SWN Production Company™
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LAGER THAN 2500 SQ FT: >625 FEET			OPERATOR'S G W RENTALS LLC OHI	WELL #: 605H
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM UNINCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0080D; EFFECTIVE JULY 17, 2006.			LOCATION: TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA	SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.074377° LONGITUDE: -80.565528° 05/26/2017
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊗ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊙ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR			BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.096026° LONGITUDE: -80.567503°	REVISIONS: △ REVISED PARCEL NO. & LEASE BDRY 04-12-2016
<ul style="list-style-type: none"> ○ EXISTING SPRING ○ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD 			DATE: 03-30-2016	DRAWN BY: K. IRVIN SCALE: 1" = 2000' DRAWING NO: 59423 TOPOGRAPHIC MAP



320 O'Bryan Lane • Van Buren, AR 72956
 Office: 479.474.7916 • Fax: 479.474.2450
 Surveying • handa-inc.com

ADJOINING OWNERS

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BUD & DARL INC	6-T9-6.6	2.12
B	WINDMILL TRUCKERS CENTER INC	6-T9-4	140.00
C	GW RENTALS, LLC	6-T9-5.2	38.16
D	GW RENTALS, LLC	6-T4-4.4	1.72
E	GARY W GLESSNER	6-T4-4.9	9.78
F	ROBERT L SCOTT & V J SCOTT	6-T4-4.22	0.76
G	ROBERT J MCCONNELL & ETHEL J MCCONNELL	6-T4-4.27	1.00
H	JACK E CORBETT JR	6-T4-4.25	1.00
I	HOWARD A WALLS III & TERESA WALLS	6-T4-4.24	1.77
J	PAUL WINTERS & LINDA WINTERS	6-T4-4.18	0.45
K	ROBERT B. ELLIOTT & KATHY A. ELLIOTT	6-T4-4.2	3.71
L	ROBERT ERIC BUCK & HUNTER JANNE BUCK	6-T4-4.3	0.68
M	ROBERT ERIC BUCK & HUNTER JANNE BUCK	6-T4-4.31	0.69
N	PAUL R HOWARD & ALICIA L HOWARD	6-T4-4.33	0.74
O	LEE J GLESSNER	6-T4-4.5	3.39
P	GW RENTALS LLC	6-T4-2.2	26.65
Q	WILLIAM E. WARD & LOLLYANNE G. WARD	3-L14-14.3	1.31
R	WILLIAM E. WARD & LOLLYANNE G. WARD	3-L14-14.8	0.15
S	JOHN W GRAMLICH JR	3-L14-14.7	3.04
T	JOHN W GRAMLICH JR	3-L14-14.9	0.21
U	JOHN W GRAMLICH & KATHLEEN GRAMLICH	3-L14-14.11	0.50
V	LARRY R LEWIS	3-L14-14.15	0.07
W	JAMES R. HALL JR. & MELISSA RENEE HALL	3-L14-14.14	1.99
X	LEE J. GLESSNER	3-T4-2	86.89
Y	JAMES E LAUDERMILT JR & ASHLEY L LAUDERMILT	3-L14-4	8.62
Z	RICHARD K DERROW & ALICIA DERROW	3-L14-3	6.74
AA	NOT USED	NOT USED	NOT USED
BB	DONALD C. SINCLAIR & BETTY SINCLAIR	3-L14-1.1	99.77
CC	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-94	0.83
DD	JOE VESPA	8-VG9-92.1	1.01
EE	VILLAGE OF VALLEY GROVE	8-VG9-81	1.12
FF	VILLAGE OF VALLEY GROVE	8-VG9-82	0.18
GG	CARL W PHILABAUM III	8-VG9-85	2.00
HH	JEPSON L NELSON & C L NELSON	8-VG9-87	0.27
II	GEORGE E BESS & CATH L BESS	8-VG9-89	0.63
JJ	EDWARD A. REYNOLDS JR.	8-VG9-91	0.39
KK	EDWARD G. SCHULTZ & JANET L. SCHULTZ	8-VG6-23	0.36
LL	LINDA L. RINDER	8-VG7-23	0.26
MM	ROBERT F LUBIC LIFE	8-VG7-22	0.16
NN	GARY DEBOLT & JANICE M DEBOLT	8-VG7-21	0.17
OO	MARTHA A STARKEY & BARBARA A JENKS	8-VG7-18	1.93
PP	LYNN REUSSER	8-L14-2	10.00
QQ	WILLIAM S. PATTERSON III & DAWN E. PATTERSON	3-L14-2.2	32.26
RR	MICHAEL D. VARGO & MELISSA JEAN VARGO	3-L11-10	137.42
SS	LYNN REUSSER & YVONNE REUSSER	3-L11-2	103.84
TT	LYNN REUSSER & YVONNE REUSSER	3-L11-21	79.91
UU	VINCENT W BEVILL & BAMBI A BEVILL	8-VG7-1	2.21
VV	JACK L NELSON	8-VG7-5.1	1.92
WW	BRENDA S SHEPHERD	8-VG7-5	1.94
XX	THOMAS J HUNTER & CAROL R HUNTER	8-VG7-8	0.74
YY	CARL W PHILABAUM III & MARY B PHILABAUM	8-VG7-8.2	1.00
ZZ	CARL PHILABAUM III	8-VG7-9	0.31
AAA	JAMES R. HALL & KATHY D. HALL	8-VG7-14	0.22
BBB	CAROLYN L. NICK & DARRYL D. NICK	8-VG7-15	0.19
CCC	CAROLYN L. NICK & DARRYL D. NICK	8-VG7-16	0.19
DDD	RENA MOSA	8-VG7-7	0.33
EEE	DONALD PLETCHER & PEGGY PLETCHER	3-L14-56	5.13
FFF	KELLY A CALMBACHER	3-L14-56.1	0.63
GGG	DONALD PLETCHER & P L PLETCHER	8-L14-19.1	1.39
HHH	DAVID W. SLYDER & GINA SLYDER	3-L14-9	0.51
III	ANNA HACSKAYLO	8-L14-10	3.14
JJJ	JOHN KOVACS & TINA KOVACS	3-L14-11	2.00
KKK	JOHN W KOVACS JR & TINA M KOVACS	3-L14-11.1	2.00
LLL	RODNEY L MILLER & CLAUDIA K MILLER	8-L14-13	15.00
MMM	EARL F PARSONS & G A PARSONS	3-L14-15	51.71
NNN	NANCY MAE CUSTER	6-T4-5	8.81
OOO	ERNEST R. BURKY & JOYCE A. BURKY	6-T4-4.12	0.65
PPP	CLARA CLIFTON	6-T4-4.35	0.19
QQQ	CLARA M CLIFTON	6-T4-4.16	0.85
RRR	ROBERT L. CLIFTON & CLARA M. CLIFTON	6-T4-4.1	1.06
SSS	ALBERT B LEECH & JENIFER A LEECH	6-T4-4.32	0.96
TTT	C EDWARD BELCHER	6-T4-4.17	1.12
UUU	RAYMOND H. MCCAUSLAND & SHARON L. MCCAUSLAND	6-T4-9	13.51
VVV	H ELAINE THOMS & SCHNEIDER T THOMS	6-T4-9.2	1.23
WWW	UNITED STATES OF AMERICA	6-T9-31.3	18.65
XXX	VALLEY FOREST PRODUCTS INC	6-T9-31	5.23
YYY	BEYBA INC	6-T9-31.2	4.18
ZZZ	CONTINENTAL PLASTICS INC	6-T9-31.5	7.97
AAAA	RXI PLASTIC INC	6-T9-6	1.32
BBBB	JAMES W JOHNSON & B A JOHNSON	6-T9-6.4	0.85
CCCC	JAMES W JOHNSON & BARBARA A JOHNSON	6-T9-6.2	0.73
DDDD	JOANN T MOFFETT	6-T9-6	5.01

05/26/2017

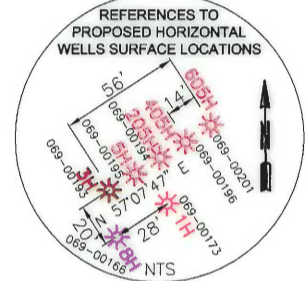
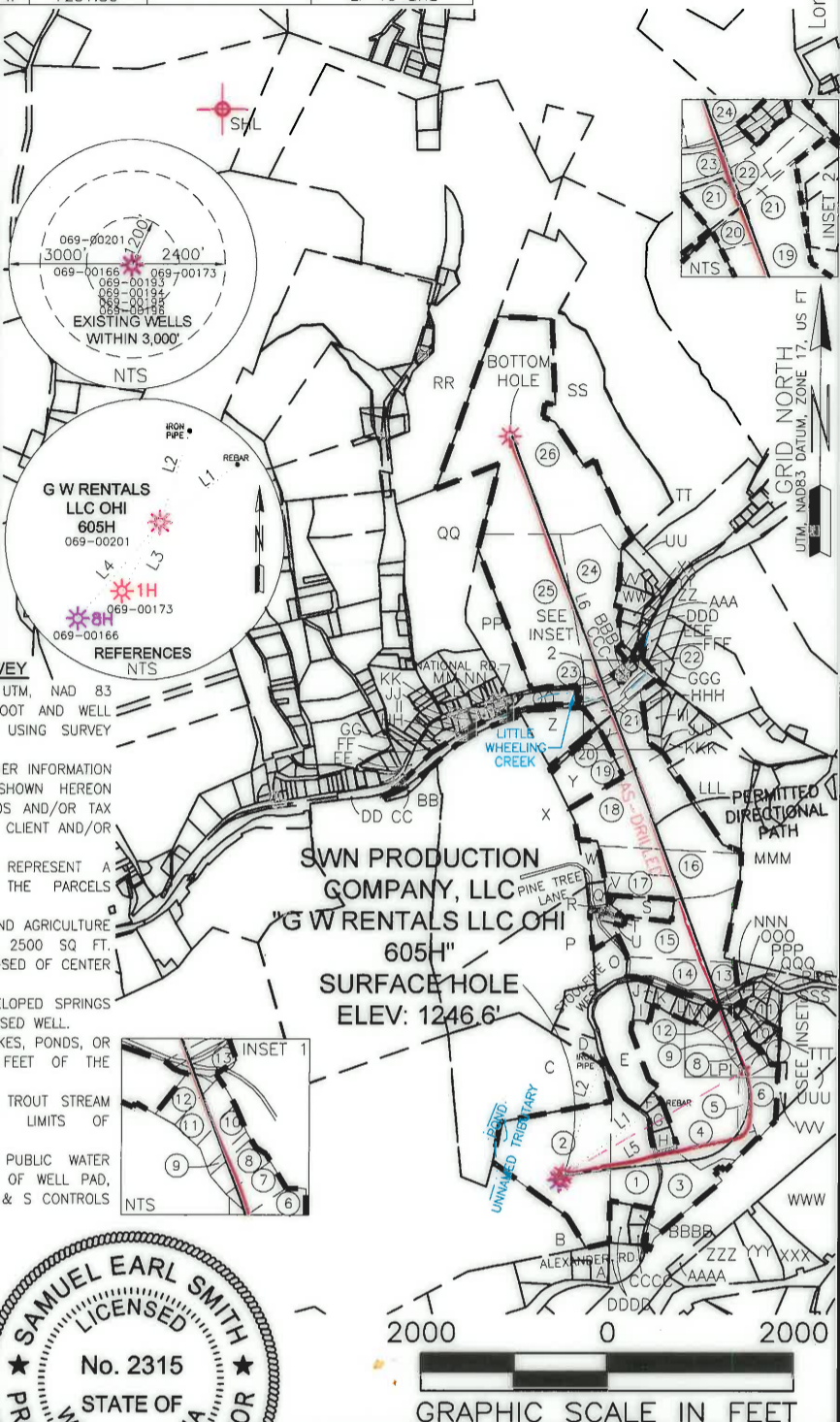
REVISIONS:	COMPANY:		
△ REVISED PARCEL NO. 04-12-2016			
	OPERATOR'S	G W RENTALS LLC OHI	DATE: 03-30-2016
	WELL #:	605H	FILE NO:
	LOCATION:	TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA	DRAWN BY: K. IRVIN
			SCALE: N/A
			DRAWING NO: 59423
			ADJOINING OWNERS



320 O'Bryan Lane • Van Buren, AR 72966
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 53°31'56" E	1282.52'	SHL TO LANDMARK	5/8" REBAR SET
L2	N 17°51'02" E	1268.47'	SHL TO LANDMARK	1" IRON PIPE
L3	S 29°14'09" W	40.95'	SHL TO REF. PNT.	G W RENTALS LLC OHI 1H WELL HEAD 069-00173
L4	S 39°49'29" W	68.00'	SHL TO REF. PNT.	G W RENTALS LLC OHI 8H WELL HEAD 069-00166
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 60°23'11" E	2254.10'		SHL TO LP
L6	N 20°39'12" W	7231.56'		LP TO BHL

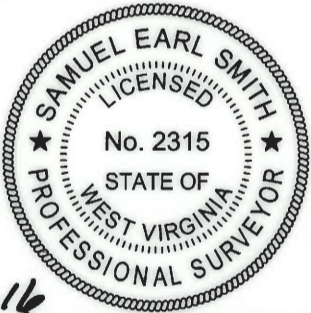
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
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2	GW RENTALS, LLC (S) LEE J. GLESSNER & GARY W. GLESSNER (R) JAMES Z. CHAMBERS (R) JEFFREY S. CHAMBERS (R) JUDY LYNN CHAMBERS (R)	6-T9-5.1	27.66
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4	JOSEPH M. TEAGARDEN & MARLA M. TEAGARDEN (S) VICTOR A. WOOD & JENNA P. WOOD (R)	6-T4-4.30	33.32
5	H. ELAINE SCHNEIDER & THOMAS E. SCHNEIDER (S/R)	6-T4-4.28	1.71
6	H. ELAINE SCHNEIDER & THOMAS E. SCHNEIDER (S/R)	6-T4-4.26	3.95
7	DAVID LEE BARNETT & NANCY BARNETT (S/R)	6-T4-4.23	0.88
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- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
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LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,442.365 EASTING: 537,643.540
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,438,504.890 EASTING: 536,866.094



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.

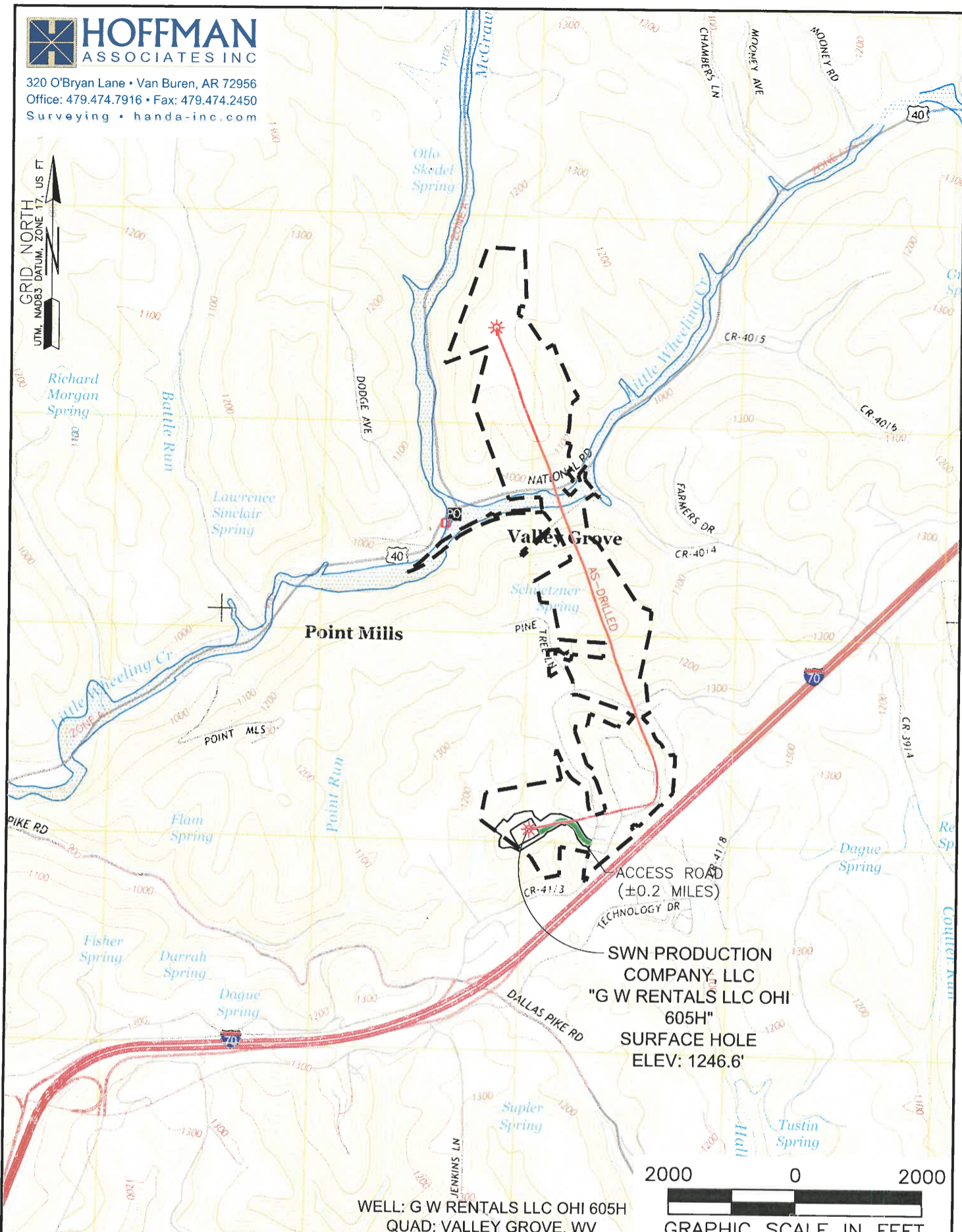
P.S. 2315 *[Signature]* 04-19-16

<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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>OPERATOR'S WELL #: 605H</p> <p>API WELL #: 47 69 00201</p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input 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: WHEELING CREEK ELEVATION: 1,246.6'</p> <p>DISTRICT: TRIADDELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE WV.</p> <p>SURFACE OWNER: GW RENTALS, LLC. ACREAGE: ±27.66</p> <p>OIL & GAS ROYALTY OWNER: LEE J GLESSNER & GARY W GLESSNER, JAMES Z CHAMBERS, JEFFREY S CHAMBERS, & JUDY LYNN CHAMBERS ACREAGE: ±27.66</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) AS-DRILLED</p> <p>TARGET FORMATION: MARCELLUS DEPTH: 6,537' IVD 14,634' IVD</p>	<p>DATE: 03-30-2016</p> <p>DRAWN BY: K. IRVIN</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 59423</p> <p>WELL LOCATION PLAT</p>

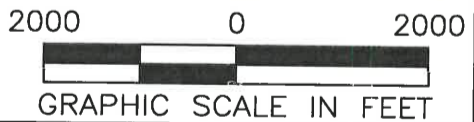
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378	CITY: JANE LEW STATE: WV ZIP CODE: 26378

<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR --- LEASE BOUNDARY --- AS-DRILLED PATH --- PERMITTED --- DIRECTIONAL PATH 	<p>REVISIONS:</p> <ul style="list-style-type: none"> △ REVISED PARCEL NO. & LEASE BDRY 04-12-2016
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GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



WELL: G W RENTALS LLC OHI 605H
QUAD: VALLEY GROVE, WV



NAME AND DISTANCE TO THE NEAREST STREAM: AN UNNAMED TRIBUTARY OF POINT RUN IS LOCATED ±0.15 MILES NORTHWEST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: SWN Production Company, LLC		SWN Production Company™	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LAGER THAN 2500 SQ FT: >625 FEET FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM UNINCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0080D; EFFECTIVE JULY 17, 2006.				OPERATOR'S G W RENTALS LLC OHI		WELL #: 605H	
				LOCATION: TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA			
				SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.074377° LONGITUDE: -80.565528°			
				BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.096026° LONGITUDE: -80.567503°			
LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		(S) EXISTING SPRING (W) EXISTING WATER WELL ACCESS ROAD ACCESS ROAD TO PREV. SITE HIGHWAY/INTERSTATE COUNTY ROAD		REVISIONS: △ REVISED PARCEL NO. & LEASE BDY 04-12-2016		DATE: 03-30-2016	
						DRAWN BY: K. IRVIN	
						SCALE: 1" = 2000'	
						DRAWING NO: 59423	
						TOPOGRAPHIC MAP	

05/26/2017



320 O'Bryan Lane • Van Buren, AR 72956
 Office: 479.474.7916 • Fax: 479.474.2450
 Surveying • handa-inc.com

ADJOINING OWNERS

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BUD & DARL INC	6-T9-6.6	2.12
B	WINDMILL TRUCKERS CENTER INC	6-T9-4	140.00
C	GW RENTALS, LLC	6-T9-5.2	38.16
D	GW RENTALS, LLC	6-T4-4.4	1.72
E	GARY W GLESSNER	6-T4-4.9	9.78
F	ROBERT L SCOTT & V J SCOTT	6-T4-4.22	0.76
G	ROBERT J MCCONNELL & ETHEL J MCCONNELL	6-T4-4.27	1.00
H	JACK E CORBETT JR	6-T4-4.25	1.00
I	HOWARD A WALLS III & TERESA WALLS	6-T4-4.24	1.77
J	PAUL WINTERS & LINDA WINTERS	6-T4-4.18	0.45
K	ROBERT B. ELLIOTT & KATHY A. ELLIOTT	6-T4-4.2	3.71
L	ROBERT ERIC BUCK & HUNTER JANNE BUCK	6-T4-4.3	0.68
M	ROBERT ERIC BUCK & HUNTER JANNE BUCK	6-T4-4.31	0.69
N	PAUL R HOWARD & ALICIA L HOWARD	6-T4-4.33	0.74
O	LEE J GLESSNER	6-T4-4.5	3.39
P	GW RENTALS LLC	6-T4-2.2	26.65
Q	WILLIAM E. WARD & LOLLYANNE G. WARD	3-L14-14.3	1.31
R	WILLIAM E. WARD & LOLLYANNE G. WARD	3-L14-14.8	0.15
S	JOHN W GRAMLICH JR	3-L14-14.7	3.04
T	JOHN W GRAMLICH JR	3-L14-14.9	0.21
U	JOHN W GRAMLICH & KATHLEEN GRAMLICH	3-L14-14.11	0.50
V	LARRY R LEWIS	3-L14-14.15	0.07
W	JAMES R. HALL JR. & MELISSA RENEE HALL	3-L14-14.14	1.99
X	LEE J. GLESSNER	3-T4-2	86.89
Y	JAMES E LAUDERMILT JR & ASHLEY L LAUDERMILT	3-L14-4	8.62
Z	RICHARD K DERROW & ALICIA DERROW	3-L14-3	6.74
AA	NOT USED	NOT USED	NOT USED
BB	DONALD C. SINCLAIR & BETTY SINCLAIR	3-L14-1.1	99.77
CC	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-94	0.83
DD	JOE VESPA	8-VG9-92.1	1.01
EE	VILLAGE OF VALLEY GROVE	8-VG9-81	1.12
FF	VILLAGE OF VALLEY GROVE	8-VG9-82	0.18
GG	CARL W PHILABAUM III	8-VG9-85	2.00
HH	JEPSON L NELSON & C L NELSON	8-VG9-87	0.27
II	GEORGE E BESS & CATH L BESS	8-VG9-89	0.63
JJ	EDWARD A. REYNOLDS JR.	8-VG9-91	0.39
KK	EDWARD G. SCHULTZ & JANET L. SCHULTZ	8-VG6-23	0.36
LL	LINDA L. RINDER	8-VG7-23	0.26
MM	ROBERT F LUBIC LIFE	8-VG7-22	0.16
NN	GARY DEBOLT & JANICE M DEBOLT	8-VG7-21	0.17
OO	MARTHA A STARKEY & BARBARA A JENKS	8-VG7-18	1.93
PP	LYNN REUSSER	8-L14-2	10.00
QQ	WILLIAM S. PATTERSON III & DAWN E. PATTERSON	3-L14-2.2	32.26
RR	MICHAEL D. VARGO & MELISSA JEAN VARGO	3-L11-10	137.42
SS	LYNN REUSSER & YVONNE REUSSER	3-L11-2	103.84
TT	LYNN REUSSER & YVONNE REUSSER	3-L11-21	79.91
UU	VINCENT W BEVILL & BAMBI A BEVILL	8-VG7-1	2.21
VV	JACK L NELSON	8-VG7-5.1	1.92
WW	BRENDA S SHEPHERD	8-VG7-5	1.94
XX	THOMAS J HUNTER & CAROL R HUNTER	8-VG7-8	0.74
YY	CARL W PHILABAUM III & MARY B PHILABAUM	8-VG7-8.2	1.00
ZZ	CARL PHILABAUM III	8-VG7-9	0.31
AAA	JAMES R. HALL & KATHY D. HALL	8-VG7-14	0.22
BBB	CAROLYN L. NICK & DARRYL D. NICK	8-VG7-15	0.19
CCC	CAROLYN L. NICK & DARRYL D. NICK	8-VG7-16	0.19
DDD	RENA MOSA	8-VG7-7	0.33
EEE	DONALD PLETCHER & PEGGY PLETCHER	3-L14-56	5.13
FFF	KELLY A CALMBACHER	3-L14-56.1	0.63
GGG	DONALD PLETCHER & P L PLETCHER	8-L14-19.1	1.39
HHH	DAVID W. SLYDER & GINA SLYDER	3-L14-9	0.51
III	ANNA HACSKAYLO	8-L14-10	3.14
JJJ	JOHN KOVACS & TINA KOVACS	3-L14-11	2.00
KKK	JOHN W KOVACS JR & TINA M KOVACS	3-L14-11.1	2.00
LLL	RODNEY L MILLER & CLAUDIA K MILLER	8-L14-13	15.00
MMM	EARL F PARSONS & G A PARSONS	3-L14-15	51.71
NNN	NANCY MAE CUSTER	6-T4-5	8.81
OOO	ERNEST R. BURKY & JOYCE A. BURKY	6-T4-4.12	0.65
PPP	CLARA CLIFTON	6-T4-4.35	0.19
QQQ	CLARA M CLIFTON	6-T4-4.16	0.85
RRR	ROBERT L. CLIFTON & CLARA M. CLIFTON	6-T4-4.1	1.06
SSS	ALBERT B LEECH & JENIFER A LEECH	6-T4-4.32	0.96
TTT	C EDWARD BELCHER	6-T4-4.17	1.12
UUU	RAYMOND H. MCCAUSLAND & SHARON L. MCCAUSLAND	6-T4-9	13.51
VVV	H ELAINE THOMS & SCHNEIDER T THOMS	6-T4-9.2	1.23
WWW	UNITED STATES OF AMERICA	6-T9-31.3	18.65
XXX	VALLEY FOREST PRODUCTS INC	6-T9-31	5.23
YYY	BEYBA INC	6-T9-31.2	4.18
ZZZ	CONTINENTAL PLASTICS INC	6-T9-31.5	7.97
AAAA	RXI PLASTIC INC	6-T9-6	1.32
BBBB	JAMES W JOHNSON & B A JOHNSON	6-T9-6.4	0.85
CCCC	JAMES W JOHNSON & BARBARA A JOHNSON	6-T9-6.2	0.73
DDDD	JOANN T MOFFETT	6-T9-6	5.01

05/26/2017

REVISIONS:
△ REVISED PARCEL NO. 04-12-2016

COMPANY:		
OPERATOR'S	G W RENTALS LLC OHI	DATE: 03-30-2016
WELL #:	605H	FILE NO:
LOCATION:	TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA	DRAWN BY: K. IRVIN
		SCALE: N/A
		DRAWING NO: 59423
		ADJOINING OWNERS