

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

API 47 - 069 - 00194 County OHIO District TRIADELPHIA
Quad VALLEY GROVE, WV Pad Name G W RENTALS LLC-OHI-PAD1 Field/Pool Name PANHANDLE FIELD
Farm name G W RENTALS LLC OHI 205 Well Number G W RENTALS LLC OHI 205
Operator (as registered with the OOG) SWN Production Company LLC
Address P O 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 4,436,098.288 Easting 537,039.075
Landing Point of Curve Northing 4,436,355.408 Easting 537,260.716
Bottom Hole Northing 4,438,829.006 Easting 536,207.365

Elevation (ft) 1246.7' 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 9/21/2015 Date drilling commenced 10/02/2015 Date drilling ceased 11/23/2015
Date completion activities began 08/20/2016 Date completion activities ceased 11/07/2016
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 511' MD Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1329' MD Void(s) encountered depths 606' - 629'
Coal depth(s) ft 608' MD Cavern(s) encountered (Y/N) depths N

APPROVED

NAME: Eric Blend
DATE: 3/29/17

FEB 06 2017

Reviewed by:
SB 3/29/17

05/26/2017

API 47-069 - 00194 Farm name G W RENTALS LLC OHI 205 Well number G W RENTALS LLC OHI 205

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"	126	NEW	J-55/94#		Y
Surface	17.50"	13.375"	672	NEW	J-55/54.5#	584.43'/626.22'	Y, 1 BBL RETURNED
Coal	SEE SURFACE						
Intermediate 1	12.45"	9.625"	2105	NEW	J-55/40#		Y, 60 BBLs RETURNED
Intermediate 2							
Intermediate 3							
Production	8.75"	5.50"	15965	NEW	HCP-110/20#		Y
Tubing		2.375"	6946	NEW	P-110/4.6#		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	17.20			SURFACE	24
Surface	CLASS A	630	15.60	1.20	756	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	793	15.60	1.18	935.74	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	900/1950	13.50/15.60	1.23/1.19	1107 / 2320.5	SURFACE	24
Tubing							

Drillers TD (ft) 15,965' Loggers TD (ft) 15,965'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,907'

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 _____
EXAMPLE: (SEE DRILLING PROGRAM FOR GUIDANCE)
 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

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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 _____

G W RENTALS LLC OHI 205H

Perf Stage Summary

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD	# SHOTS PER STG
1	8/20/2016	15,861	15,662	42
2	8/20/2016	15,598	15,400	42
3	8/20/2016	15,336	15,137	42
4	8/21/2016	15,073	14,875	42
5	8/21/2016	14,811	14,612	42
6	8/21/2016	14,548	14,350	42
7	8/21/2016	14,286	14,087	42
8	8/21/2016	14,023	13,824	42
9	8/22/2016	13,761	13,562	42
10	8/22/2016	13,498	13,299	42
11	8/22/2016	13,236	13,037	42
12	8/23/2016	12,973	12,774	42
13	8/22/2016	12,711	12,512	42
14	8/23/2016	12,448	12,249	42
15	8/23/2016	12,186	11,987	42
16	8/24/2016	11,923	11,724	42
17	8/24/2016	11,661	11,462	42
18	8/24/2016	11,398	11,199	42
19	8/24/2016	11,136	10,937	42
20	8/24/2016	10,873	10,674	42
21	8/25/2016	10,611	10,412	42
22	8/25/2016	10,348	10,149	42
23	8/25/2016	10,086	9,887	42
24	8/25/2016	9,823	9,624	42
25	8/26/2016	9,559	9,362	42
26	8/26/2016	9,298	9,099	42
27	8/26/2016	9,036	8,837	42
28	8/26/2016	8,773	8,574	42
29	8/26/2016	8,510	8,312	42
30	8/27/2016	8,248	8,049	42
31	8/27/2016	7,985	7,787	42
32	8/27/2016	7,723	7,524	42
33	8/27/2016	7,460	7,262	42
34	8/27/2016	7,198	6,999	42

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G W RENTALS LLC OHI 205H

Frac Stage Summary

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	8/20/2016	2	8,341	8,769	4,643	492,940	9,758	
2	8/20/2016	2	7,446	8,412	4,462	503,040	11,563	
3	8/20/2016	2	7,019	8,843	4,655	500,120	10,641	
4	8/21/2016	2	7,258	8,143	2,811	430,720	8,385	
5	8/21/2016	2	7,128	8,388	4,490	499,720	9,655	
6	8/21/2016	2	7,128	9,073	4,647	502,220	8,371	
7	8/21/2016	2	7,102	8,900	4,621	500,760	8,069	
8	8/21/2016	2	7,033	8,738	4,426	500,120	8,174	
9	8/22/2016	2	6,977	9,087	4,357	501,040	7,884	
10	8/22/2016	2	6,865	8,659	4,368	500,360	8,013	
11	8/22/2016	2	7,431	8,860	4,257	230,080	5,757	
12	8/23/2016	2	7,086	9,330	4,345	500,960	9,006	
13	8/22/2016	2	7,510	8,958	4,533	420,760	7,551	
14	8/23/2016	2	8,064	8,960	4,321	501,780	8,669	
15	8/23/2016	2	8,245	8,562	4,290	499,360	7,836	
16	8/24/2016	2	7,919	8,857	4,283	502,640	8,074	
17	8/24/2016	2	7,815	8,301	4,702	502,120	7,694	
18	8/24/2016	2	7,781	8,753	4,258	501,640	8,536	
19	8/24/2016	2	7,879	8,844	4,723	499,120	7,810	
20	8/24/2016	2	7,837	8,189	4,302	501,940	7,807	
21	8/25/2016	2	7,872	8,250	4,190	497,060	7,387	
22	8/25/2016	2	7,818	8,580	4,343	510,380	7,193	
23	8/25/2016	2	7,278	8,141	4,264	499,980	7,611	
24	8/25/2016	2	7,441	8,320	4,468	503,460	7,591	
25	8/26/2016	2	7,436	8,550	4,311	499,500	7,415	
26	8/26/2016	2	7,144	8,203	4,334	498,900	6,987	
27	8/26/2016	2	7,597	8,595	4,314	499,180	7,237	
28	8/26/2016	2	7,454	8,149	4,082	500,320	7,671	
29	8/26/2016	2	7,106	7,787	4,219	503,820	7,968	
30	8/27/2016	2	7,339	7,995	4,444	502,380	7,323	
31	8/27/2016	2	7,162	8,255	4,491	499,960	7,019	
32	8/27/2016	2	7,081	8,147	4,471	498,420	6,917	
33	8/27/2016	2	6,796	7,247	4,464	508,120	7,294	
34	8/27/2016	2	6,749	7,229	4,420	500,260	7,031	

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05/26/2017

Well Name: G W RENTALS OHI 205H

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.	511.00	511.00	?
Top of Salt Water	1329.00	1329.00	N.A.	N.A.	?
Pittsburgh Coal	608.00	608.00	1856.00	1855.98	?
Big Injun (ss)	1856.00	1855.98	2381.00	2380.97	?
Berea (siltstone)	2381.00	2380.97	6006.68	5888.38	?
Rhinestreet (shale)	6006.68	5888.38	6301.64	6166.33	?
Cashaqua (shale)	6301.64	6166.33	6395.72	6245.84	?
Middlesex (shale)	6395.72	6245.84	6491.00	6317.10	?
Burket (shale)	6491.00	6317.10	6530.26	6343.41	?
Tully (ls)	6530.26	6343.41	6635.99	6406.26	?
Mahantango (shale)	6635.99	6406.26	6969.32	6506.61	?
Marcellus (shale)	6969.32	6506.61	N.A.	N.A.	?

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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	8/20/2016
Job End Date:	8/28/2016
State:	West Virginia
County:	Ohio
API Number:	47-069-00194-08-00
Operator Name:	Southwestern Energy
Well Name and Number:	GW Rentals OHI 205H
Latitude:	40.07431000
Longitude:	-80.56561200
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,523
Total Base Water Volume (gal):	11,428,100
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
Lease Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	83.99022	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	1.27685	

WG-36 GELLING AGENT	Halliburton	Gelling Agent							
					Listed Below				
SAND-PREMIUM WHITE-40/70, BULK	Halliburton	Proppant							
					Listed Below				
Bactron K-139	Nalco	Biocide							
					Listed Below				
FR-76	Halliburton	Friction Reducer							
					Listed Below				
HAI-150E	Halliburton	Corrosion Inhibitor							
					Listed Below				
HYDROCHLORIC ACID	Halliburton	Solvent							
					Listed Below				
SAND-COMMON WHITE - 100 MESH, 3307 LB BAG	Halliburton	Proppant							
					Listed Below				
SP BREAKER	Halliburton	Breaker							
					Listed Below				

EC6486A	Nalco	Scale Inhibitor								
				Listed Below						
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	14.65764				
			Hydrochloric acid	7647-01-0	15.00000	0.73298				
			Acrylamide acrylate copolymer	Proprietary	30.00000	0.02761				Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Hydro-treated light petroleum distillate	64742-47-8	30.00000	0.02761				
			Inorganic salt	Proprietary	30.00000	0.02761				
			Guar gum	9000-30-0	100.00000	0.00739				
			Glutaraldehyde	111-30-8	10.00000	0.00253				
			Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyl dimethyl, Chlorides	68424-85-1	10.00000	0.00253				
			Ethylene Glycol	107-21-1	30.00000	0.00159				
			Ethanol	64-17-5	5.00000	0.00126				
			Non-hazardous food substance	Proprietary	100.00000	0.00031				
			Sodium persulfate	7775-27-1	100.00000	0.00018				
			Sodium sulfate	7757-82-6	0.10000	0.00000				

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%
*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 205H
Area	Ohio County, WV	Well	GW Rentals LLC OHI 205H
Field	Ohio	Wellbore	GW Rentals LLC OHI 205H PWB
Facility	GW Rentals LLC OHI Pad		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
2031.03	0.308	82.230	2031.00	Base Big Injnm: 2031.00' TVD
2170.03	0.203	119.201	2170.00	Berea: 2170.00' TVD
6021.67	14.508	66.696	5906.00	Upper Rhinestreet: 5906.00' TVD
6162.50	19.252	24.979	6041.20	Lower Rhinestreet: 6041.20' TVD
6232.91	23.844	13.007	6106.70	Basal Rhinestreet: 6106.70' TVD
6313.85	29.883	3.934	6178.90	Cashaqua: 6178.90' TVD
6393.45	36.239	357.845	6245.60	Middlesex: 6245.60' TVD
6431.29	39.347	355.569	6275.50	Lower Middlesex: 6275.5' TVD
6484.63	43.791	352.831	6315.40	Burket: 6315.40' TVD
6519.73	46.747	351.261	6340.10	Tully: 6340.10' TVD
6578.24	51.716	348.957	6378.30	Hamilton: 6378.30' TVD
6787.58	69.749	342.650	6480.30	Levanma: 6480.30' TVD
6872.98	77.167	340.551	6504.60	Upper Marcellus: 6504.6' TVD
6933.40	82.425	339.144	6515.30	Top target: 6515.30' TVD
7546.25	90.630	337.009	6515.30	Top target: 6515.30' TVD
8519.91	90.630	337.009	6504.60	Upper Marcellus: 6504.6' TVD
10731.11	90.630	337.009	6480.30	Levanma: 6480.30' TVD

DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
5173.00	15.550	83.520	5090.10	Tie On
5243.00	14.580	81.640	5157.69	Proj. to Bit
5457.80	16.472	96.112	5364.72	Adjustment
5932.72	16.472	96.112	5820.16	Curve KOP
7027.57	90.630	337.009	6521.00	Landing point
15945.18	90.630	337.009	6423.00	TD/PBHL

**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 6969.32 feet
Perforation Interval 6,999' / 15,861' 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 BBLs	Gas Production During Test MCF	Water Production During Test BBls		
Oil Gravity API	Producing Method (flowing, pumping, gas lift etc.) -Salinity			

GAS PRODUCTION

Measurement Method Flange Tap <input type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>		Positive Choke <input type="checkbox"/>
Orifice diameter	Pipe Diameter (inside)	Positive flow prover <input type="checkbox"/>
Differential Pressure range	Max. Static pressure range	Nominal Choke Size inches 16"
Differential		Prover and Orifice diameter - inches
Gas Gravity (Air = 1.0)		Static
Measured	Estimated	Flowing Temperature
24 Hour Coefficient		Gas Temperature
		24 Hour coefficient pressure PSIA

TEST RESULTS

Daily Oil 186.64 Bbls	Daily Water 310.1 Bbls	Daily Gas 2017.657 mcf	Gas-Oil Ratio
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Denise Grantham
Well Operator

BY DENISE GRANTHAM

ITS: DESIGNATED REPRESENTATIVE

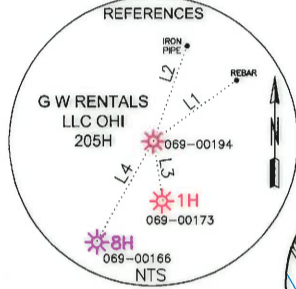


320 O'Bryan Lane • Van Buren, AR 72956
 Office: 479.474.7916 • Fax: 479.474.2450
 Surveying • handa-inc.com

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	GARY W. GLESSNER (S/R)	6-T4-4.9	9.78
4	ROBERT B. ELLIOTT & KATHY A. ELLIOTT (S/R)	6-T4-4.2	3.71
5	GW RENTALS, LLC (S/R)	6-T4-2.2	26.65
6	GARY W. GLESSNER AS TRUSTEE OF THE LEE J. GLESSNER DYNASTY TRUST (S) LEE J. GLESSNER (R)	6-T4-2	86.89
7	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC (S/R)	8-VG9-93	14.80
8	EDWARD A. REYNOLDS JR. (S/R)	8-VG9-91	0.34
9	MARLENE S. KIMMINS (S/R)	8-VG6-20	0.39
11	WILMA M. FERRELL (S/R)	8-VG6-24	0.79
10	WILMA M. FERRELL (S/R)	8-VG6-25	2.95
12	WILLIAM S. PATTERSON III & DAWN E. PATTERSON (S/R)	3-L14-2.2	32.26
13	ROBERT DALE ABERCROMBIE & PATRICIA ANN ABERCROMBIE (S/R)	8-VG3-1	3.34
14	JOHN M. BORING III & APRIL D. BORING (S/R)	3-L11N-29	6.64
15	JOHN M. BORING III & APRIL D. BORING (S/R)	3-L11-70	13.05
16	EARL P. FARMER JR. (S)	3-L11-16	19.44
17	EARL P. FARMER JR. (S)	3-L11-17.1	15.75

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: 4,436,098.288 EASTING: 537,039.075
LANDING POINT LOCATION (LPL)
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,355.408 EASTING: 537,260.716
BOTTOM HOLE LOCATION (BHL)
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,438,829.006 EASTING: 536,207.365

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 *John Smith* 07-27-14

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY:	1/200
PROVEN SOURCE OF ELEVATION:	SURVEY GRADE GPS (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC

G W RENTALS LLC OHI		
OPERATOR'S WELL #:	205H	
API WELL #:	47	69 00194
	STATE	COUNTY PERMIT

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

WATERSHED: WHEELING CREEK ELEVATION: 1246.7'

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

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

OIL & GAS ROYALTY OWNER: LEE J GLESSNER & MARK 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

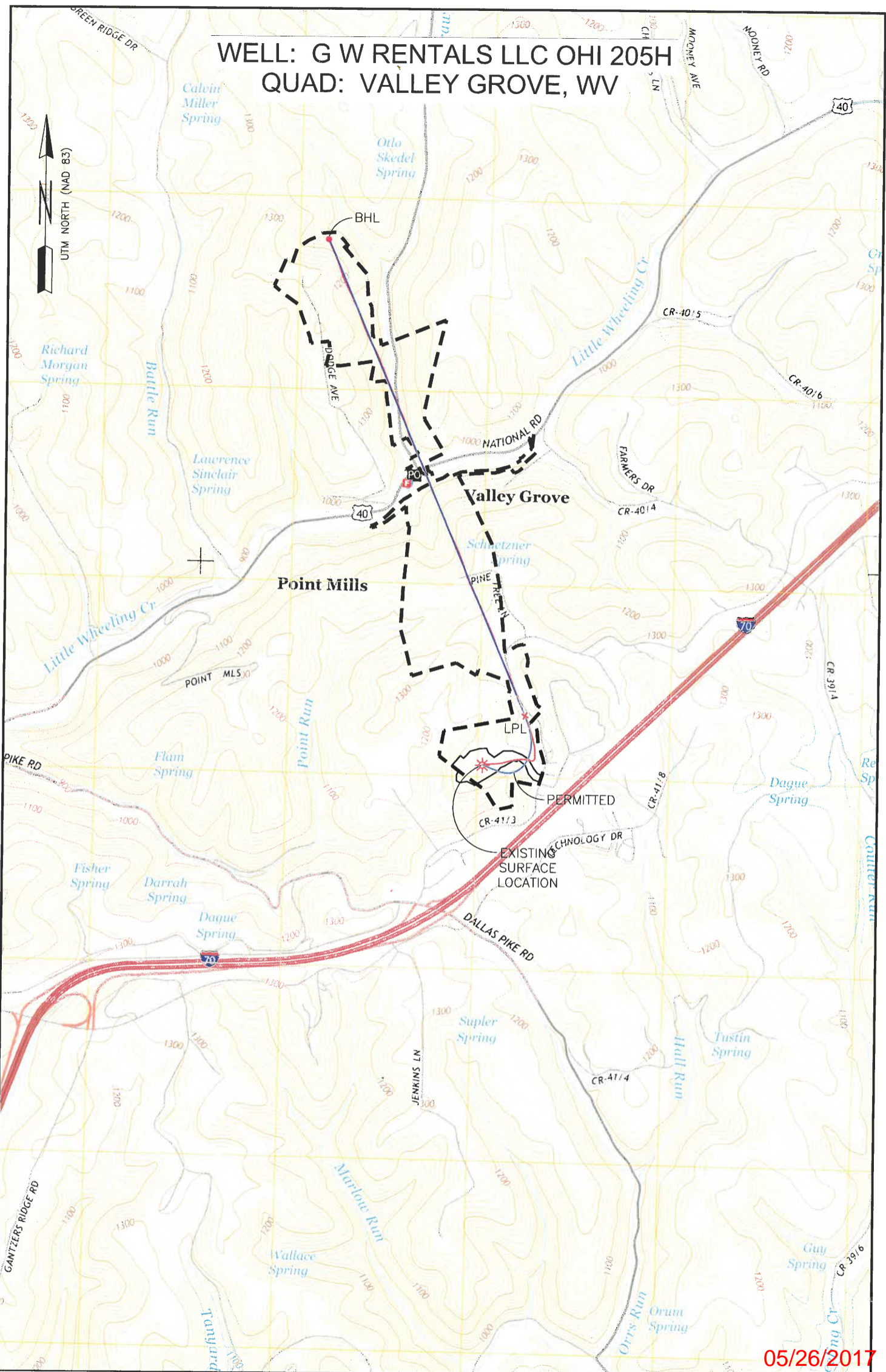
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: MARCELLUS DEPTH: 6,528' TVD 13,365' 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:	<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 	<ul style="list-style-type: none"> REVISED DIRECTIONAL PATH, 08-06-2015 ADDED ADJACENT PARCELS, 08-14-2015 ADDED ADJACENT PARCEL OWNERS, TAX MAP PARCEL NUMBER, & ACREAGE, 09-10-2015 UPDATED WITH AS-DRILLED DIRECTIONAL PATH, 12-11-2015 UPDATED PER. DIR. PATH, ADD LP COORDS. 07-25-2016 	<ul style="list-style-type: none"> DATE: 12-08-2015 SEE INSET SHEET 2 DRAWN BY: S. HUTSON SCALE: 1" = 2000' DRAWING NO: 59341 WELL LOCATION PLAT
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**WELL: G W RENTALS LLC OHI 205H
 QUAD: VALLEY GROVE, WV**



05/26/2017

NOTE:
 THE PROPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS
 WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY.
 PROPERTY LINE AND OWNERS WERE OBTAINED FROM VARIOUS FIELD
 EVIDENCE, TAX RECORDS AND AERIAL MAPPING.

LEGEND
 - - - - - EXTERNAL LEASE LINE

Applicant / Well Operator Name SWN PRODUCTION COMPANY, LLC	Well (Farm) Name G W RENTALS LLC OHI	Well # 205H	Serial #
Address PO BOX 1300, JANE LEW, WV 26378	County - Code OHIO - 69	District TRIADELPHIA	
Surface Landowner / Lessor G W RENTALS LLC	USGS 7 1/2 Quadrangle Map Name VALLEY GROVE, WV		



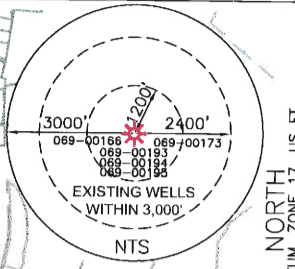
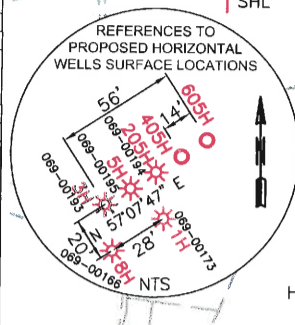
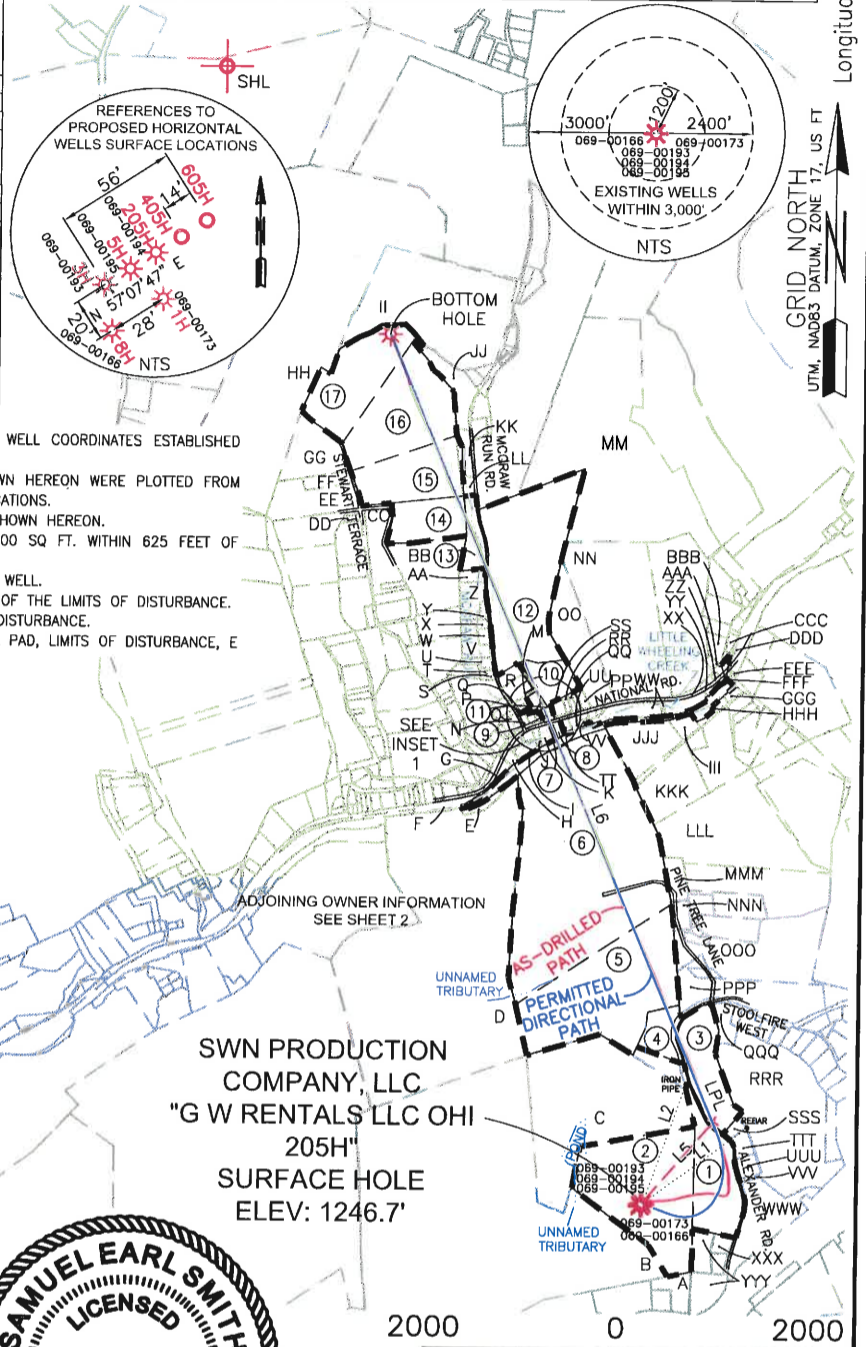
320 O'Bryan Lane • Van Buren, AR 72956
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com

TRACT	SURFACE OWNER(S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	GW RENTALS, LLC (S)	6-T9-5	13.96
2	LEE J. GLESSNER & GARY W. GLESSNER (R) GW RENTALS, LLC (S)	6-T9-5.1	27.66
3	GARY W. GLESSNER (S/R)	6-T4-4.9	9.78
4	ROBERT B. ELLIOTT & KATHY A. ELLIOTT (S/R)	6-T4-4.2	3.71
5	GW RENTALS, LLC (S/R)	6-T4-2.2	26.65
6	GARY W. GLESSNER AS TRUSTEE OF THE LEE J. GLESSNER DYNASTY TRUST (S) LEE J. GLESSNER (R)	6-T4-2	86.89
7	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC (S/R)	8-VG9-93	14.80
8	EDWARD A. REYNOLDS JR. (S/R)	8-VG9-91	0.34
9	MARLENE S. KIMMINS (S/R)	8-VG6-20	0.39
11	WILMA M. FERRELL (S/R)	8-VG6-24	0.79
10	WILMA M. FERRELL (S/R)	8-VG6-25	2.95
12	WILLIAM S. PATTERSON III & DAWN E. PATTERSON (S/R)	3-L14-2.2	32.26
13	ROBERT DALE ABERCROMBIE & PATRICIA ANN ABERCROMBIE (S/R)	8-VG3-1	3.34
14	JOHN M. BORING III & APRIL D. BORING (S/R)	3-L11N-29	6.64
15	JOHN M. BORING III & APRIL D. BORING (S/R)	3-L11-70	13.05
16	EARL P. FARMER JR. (S)	3-L11-16	19.44
17	EARL P. FARMER JR. (S)	3-L11-17.1	15.75

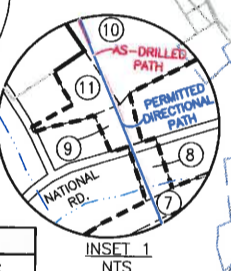
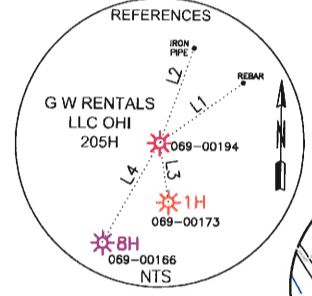
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 53°36'55" E	1310.32'	SHL TO LANDMARK	5/8" REBAR SET
L2	N 18°38'22" E	1290.07'	SHL TO LANDMARK	1" IRON PIPE
L3	S 09°33'11" E	21.03'	SHL TO REF. PNT.	G W RENTALS LLC OHI 1H WELL HEAD 069-00173
L4	S 28°19'09" W	42.28'	SHL TO REF. PNT.	G W RENTALS LLC OHI 8H WELL HEAD 069-00166
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 40°45'43" E	1113.81'		SHL TO LP
L6	N 23°03'58" W	8821.34'		LP TO BHL

Latitude: 40°05'00"

Longitude: 80°32'30"



- 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: 4,436,098.288 EASTING: 537,039.075
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,355.408 EASTING: 537,260.716
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,438,829.006 EASTING: 536,207.365

SWN PRODUCTION COMPANY, LLC
"G W RENTALS LLC OHI 205H"
SURFACE HOLE
ELEV: 1246.7'



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]* 07-27-16

COMPANY: **SWN** Production Company, LLC

G W RENTALS LLC OHI
OPERATOR'S WELL #: 205H
API WELL #: 47 69 00194
STATE COUNTY PERMIT



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

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

WATERSHED: WHEELING CREEK
DISTRICT: TRIADDELPHIA COUNTY: OHIO
SURFACE OWNER: GW RENTALS, LLC.
OIL & GAS ROYALTY OWNER: LEE J GLESSNER & MARK W GLESSNER, JAMES Z CHAMBERS, JEFFREY S CHAMBERS, & JUDY LYNN CHAMBERS
ACREAGE: ±27.66
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

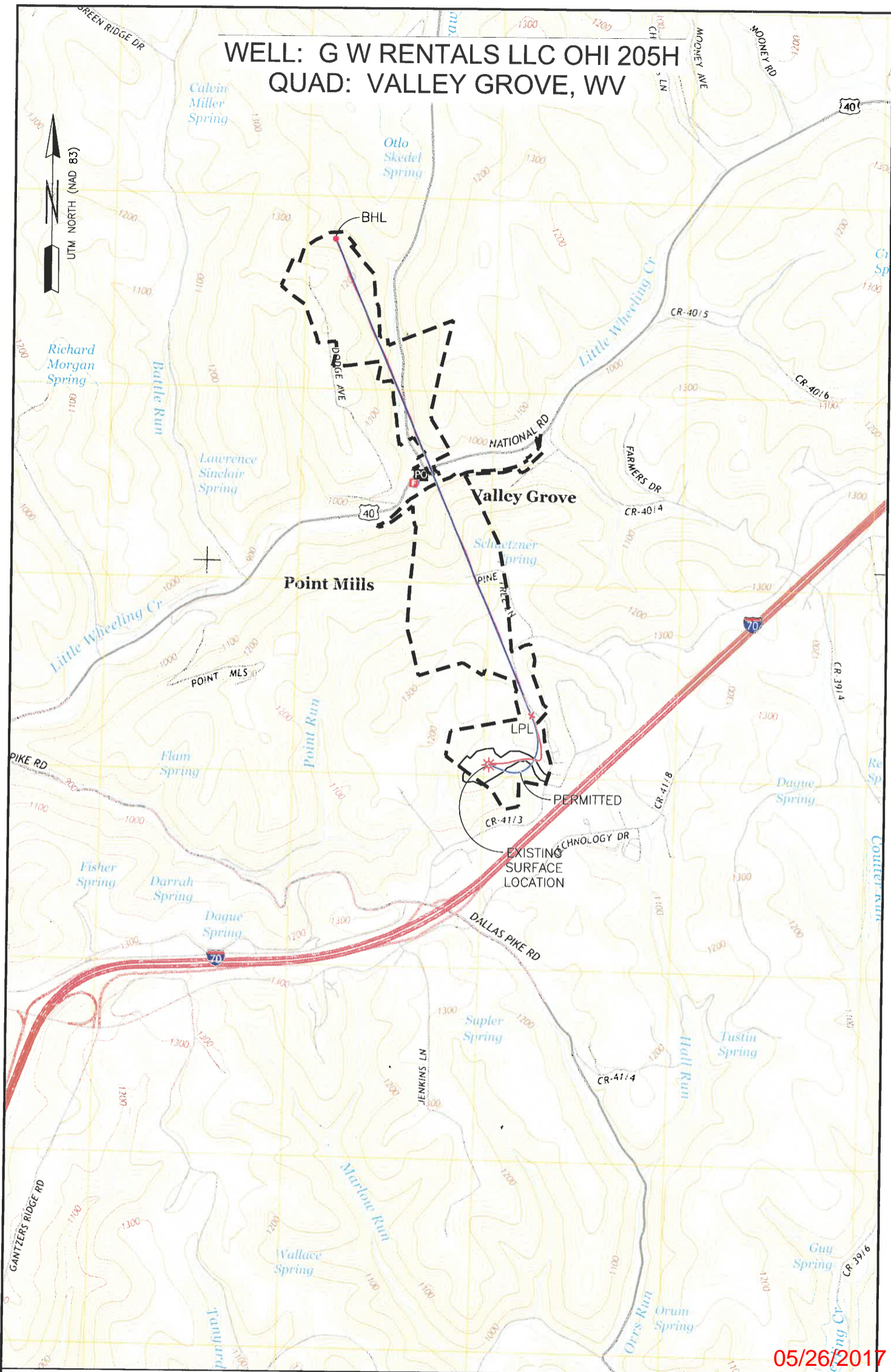
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WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378

DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	<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 	<ul style="list-style-type: none"> △ REVISED DIRECTIONAL PATH, 08-06-2015 △ ADDED ADJACENT PARCELS, 08-14-2015 △ ADDED ADJACENT PARCEL OWNERS, TAX MAP PARCEL NUMBER, & ACREAGE, 09-10-2015 △ UPDATED WITH AS-DRILLED DIRECTIONAL PATH, 12-11-2015 △ UPDATED PER. DIR. PATH, ADD LP COORDS. 07-25-2016 	<ul style="list-style-type: none"> DATE: 12-08-2015 SEE INSET SHEET 2 DRAWN BY: S. HUTSON SCALE: 1" = 2000' DRAWING NO: 59341 WELL LOCATION PLAT
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 QUAD: VALLEY GROVE, WV**



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Applicant / Well Operator Name SWN PRODUCTION COMPANY, LLC		Well (Farm) Name G W RENTALS LLC OHI		Well # 205H	Serial #
Address PO BOX 1300, JANE LEW, WV 26038		County - Code OHIO - 69	District TRIADELPHIA		
Surface Landowner / Lessor G W RENTALS LLC		USGS 7 1/2 Quadrangle Map Name VALLEY GROVE, WV			